

Yeonho Jeong

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The Department of Electrical, Computer, and Biomedical Engineering
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PROFESSIONAL ACADEMIC/INDUSTRIAL EXPERIENCE

- Associate Professor, **University of Rhode Island**, RI, USA, 2026 – Present
- Assistant Professor, **University of Rhode Island**, RI, USA, 2020 – 2026
- Postdoctoral Fellow, **University of Colorado Denver**, CO, USA, 2018 – 2020
- Senior Research Engineer, **Solu-M**, South Korea, 2015 – 2018
- Research Engineer, **Samsung Electro-Mechanics**, South Korea, 2008 – 2015

EDUCATION

- **KAIST**, Ph.D. in Electrical Engineering, 2018

HONORS AND AWARDS

- **IEEE Senior Member**, Aug. 2023.
- **Nominated for the Best Paper Award**, IEEE International Conference on Application-specific Systems, Architectures and Processors (ASAP). 2023.
- **Best Paper Award**, *IEEE Transportation Electrification Conference*, 2016.

JOURNAL PUBLICATIONS

Undergraduate and graduate students/post-docs/visiting scholars advised and co-advised.

- [1] **G. -H. Kwon**, D. -I. Lee, H. -S. Kim, J. -S. Hwang, **Y. Jeong** and H. -S. Youn, "An Electrolytic-Capacitorless Integrated LDC/V2L Converter for Hybrid Electric Vehicles," in *IEEE Transactions on Transportation Electrification (TTE)*, 2026 (**Accepted**).
- [2] C. Y. Lim, **Y. Jeong**, H. W. Jeong, and G. W. Moon, "Critical Mode Boost Power Factor Correction

Converter with High Efficiency and Reduced Input Current Distortion using Variable Inductor,” in *Journal of Power Electronics*, 26, 13-25 (2026).

- [3] **G. H. Kwon**, D. Lee, S. Jeong, **Y. Jeong**, and H. S. Youn, “A High Power Density Active-Clamp Forward-Flyback Converter with Three Planar Transformer for xEV Low Voltage DC-DC Converter,” in *The Trans. of The Korean Institute of Electrical Engineers*, 74(3), 468-476, 2025.
- [4] M. -H. Park, **X. Zhang**, **Y. Jeong** and G. -W. Moon, "A High Efficiency Boost Pre-regulator Merging with an Asymmetric LLC Standby Converter in DC Power Distribution System for Data Center," in *IEEE Transactions on Power Electron.*, vol. 39, no. 8, Aug. 2024.
- [5] S. Kim, **Y. Jeong**, and J. W. Nam, “Solving Optimal Electric Vehicle Charger Deployment Problem,” *Applied Sciences*, Vol. 14, no. 12: 5092.
- [6] K. W. Kim, M. Y. Kim, J. I. Kang, and **Y. Jeong**, “High-Efficiency Multi-Output LLC Resonant Converter with Multi-Winding Transformer and Cost-Effective Analog Control Circuit,” *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, vol. 4, no. 4, pp. 1034-1044, Oct. 2023.
- [7] **Y. G. Kwak**, **Y. Jeong**, and **B. H. Lee**, “Port Configuration Method of Three-Switch Converter for High-voltage Gain in Hybrid UAVs Applications,” *Journal of Electrical Engineering & Technology*, vol. 19, pp. 463-472, June 2023.
- [8] **B. Babaiahgari**, **Y. Jeong**, and J. D. Park, “Dynamic Control of Region of Attraction using Variable Inductor for Stabilizing DC Microgrids with Constant Power Loads,” *IEEE Trans. Ind. Electron.*, vol. 68, no. 10, pp. 10218-10228, Oct. 2021.
- [9] **K. W. Kim**, **Y. Jeong**, J. S. Kim, and G. W. Moon, “Low Common Mode Noise Full-Bridge LLC Resonant Converter with Balanced Resonant Tank,” *IEEE Trans. Power Electron.*, vol. 36, no. 4, Apr. 2021.
- [10] **K. W. Kim**, **Y. Jeong**, J. S. Kim, and G. W. Moon, “Low Common-Mode Noise LLC Resonant Converter with Static-Point-Connected Transformer,” *IEEE Trans. Power Electron.*, vol. 36, no. 1, Jan. 2021.
- [11] **Y. Jeong**, M. S. Lee, J. D. Park, J. K. Kim, and Ronal A. L. Rorrer, “Hold-up Time Compensation Circuit of Half-Bridge LLC Resonant Converter for High Light-load Efficiency,” *IEEE Trans. Power Electron.*, vol. 35, no. 12, pp. 13126-13135, Dec. 2020.
- [12] **M. H. Park**, **Y. Jeong**, R. A. L. Rorrer, D. Choi, and G. W. Moon, “Hold-up Time Extension Method for LLC Resonant Converter by Detecting Operation Region,” *IEEE Trans. Power Electron.*, vol. 35, no. 10, pp. 9949-9952, Oct. 2020.
- [13] **Y. Jeong**, M. H. Park, and G. W. Moon, “High Efficiency Zero-Voltage-Switching Totem-pole

Bridgeless Rectifier with Integrated Inrush Current Limiter Circuit,” *IEEE Trans. Ind. Electron.* vol. 67, no. 9, pp. 7421-7429, Sep. 2020.

(Before joining URI, Sep. 2020)

- [14] C. Y. Lim, Y. Jeong, and G. W. Moon, “Half-Bridge Integrated Phase-Shifted Full-Bridge Converter With High Efficiency Using Center-Tapped Clamp Circuit for Battery Charging Systems in Electric Vehicles,” *IEEE Trans. Power Electron.* vol. 35, no. 5, pp. 4934-4945, May. 2020.
- [15] Y. Jeong, J. D. Park, and G. W. Moon, “An Interleaved Active-Clamp Forward Converter Modified for Reduced Primary Conduction Loss without Additional Components,” *IEEE Trans. Power Electron.*, vol. 35, no. 1, pp. 121-130, Jan. 2020.
- [16] M. H. Park, J. I. Baek, Y. Jeong, and G. W. Moon, “An Interleaved Totem-pole Bridgeless Boost PFC Converter with Soft-Switching Capability Adopting Phase-Shifting Control,” *IEEE Trans. Power Electron.*, vol. 34, no. 11, pp. 10610-10618, Nov. 2019.
- [17] C. Y. Lim, Y. Jeong, and G. W. Moon, “Phase-Shifted Full-Bridge DC-DC Converter With High Efficiency and High Power Density Using Center-Tapped Clamp Circuit for Battery Charging in Electric Vehicles,” *IEEE Trans. Power Electron.*, vol. 34, no. 11, pp. 10945-10959, Nov. 2019.
- [18] K. W. Kim, H. S. Youn, J. I. Baek, Y. Jeong, and G. W. Moon, “Analysis on Synchronous Rectifier Control to Improve Regulation Capability of High-Frequency LLC Resonant Converter,” *IEEE Trans. Power Electron.*, vol. 33, no. 8, pp. 7252-7259, Aug. 2018.
- [19] Y. Jeong, J. K. Kim, and G. W. Moon, “A Bridgeless Dual Boost Rectifier With Soft-Switching Capability and Minimized Additional Conduction Loss,” *IEEE Trans. Ind. Electron.*, vol. 65, no. 3, pp. 2226-2233, Mar. 2018.
- [20] Y. Jeong, J. K. Kim, J. B. Lee, and G. W. Moon, “An Asymmetric Half-bridge Resonant Converter Having a Reduced Conduction Loss for DC/DC Power Applications With a Wide Range of Low Input Voltage,” *IEEE Trans. Power Electron.*, vol. 32, no. 10, pp. 7795-7804, Oct. 2017.

CONFERENCE PUBLICATIONS

Undergraduate and graduate students/post-docs/visiting scholars advised and co-advised.

- [1] S. Pack, Y. Kim, and Y. Jeong, “High Light-Load Efficiency Three-Switch Hybrid Converter for PV-Ess Water Monitoring System,” in *proc. 2026 IEEE Energy Conversion Conference Congress and Exposition (ECCE)*, Vancouver, Canada, 2026.
- [2] Y. Kim, S. Pack, Y. Lee, and Y. Jeong, “Advanced Software-Defined Power Electronics

Architecture with Direct-Control Approach for Satellite Electrical Power Systems (EPS)," in *proc. 2026 IEEE Energy Conversion Conference Congress and Exposition (ECCE)*, Vancouver, Canada, 2026.

- [3] **Y. Kim, S. Pack** and **Y. Jeong**, "A Machine Learning (ML)-Aided Design Automation Framework for Rapid Parameter Optimization in Modular Multilevel Converters," in *proc. 2026 IEEE International Conference on Intelligent Design and Control of Automation and Drive Systems (IDCD)*, Chicago, IL, USA, 2026.
- [4] S. Pack and Y. Jeong, "A Simplified Nonlinear Switching Model in Modified Nodal Analysis (MNA)-based Simulations for iPEBB Electronic Design Automation (EDA)," in *proc. 2026 IEEE Applied Power Electronics Conference and Exposition (APEC)*, San Antonio, TX, USA, 2026.
- [5] **S. Thurber, S. Pack, Y. Kim** and **Y. Jeong**, "Artificial Intelligence-Based Enhanced State of Health Estimation for Lithium-Ion Battery Utilizing Two-Pulse Load Test," in *proc. 2026 IEEE Applied Power Electronics Conference and Exposition (APEC)*, San Antonio, TX, USA, 2026, pp. 2952-2958.
- [6] **X. Zhang, Y. Kim** and **Y. Jeong**, "A Dual-Layer Model Predictive Control for Enhanced Hybrid Systems in Electric Mobility," in *proc. 2026 IEEE Applied Power Electronics Conference and Exposition (APEC)*, San Antonio, TX, USA, 2026, pp. 2283-2290.
- [7] S. Du, Z. Xu, M. Yu, J. Cai, **Y. Jeong**, and T. Wei, "Exploring Real-Time Power Electronics Simulation on AMD AIEs," in *proc. the 2026 ACM/SIGDA International Symposium on Field Programmable Gate Arrays (FPGA '26)*, Association for Computing Machinery, New York, NY, USA, 38.
- [8] **C. Kim, S. Kowalewski**, S. Dey, and **Y. Jeong**, "High-Precision Modeling and Measurement of Core Temperature in Lithium-Ion Battery Cells," in *proc. 2025 IEEE Energy Conversion Conference Congress and Exposition (ECCE)*, Philadelphia, PA, USA, 2025.
- [9] **G. -H. Kwon**, D. -I. Lee, **Y. Jeong** and H. -S. Youn, "A Low-Voltage DC-DC Converter with Integrated Vehicle-to-Load (V2L) Circuit for Hybrid Electric Vehicles (HEVs)," in *proc. 2025 IEEE Energy Conversion Conference Congress and Exposition (ECCE)*, Philadelphia, PA, USA, 2025, pp. 1-6.
- [10] **Y. Kim**, Han-Shin Youn, and **Y. Jeong**, "Machine Learning (ML)-Based Fault Detection Strategy for Power Switches in Electric Mobility," in *proc. IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED)*, Dallas, TX, USA, 2025.
- [11] **X. Zhang** and **Y. Jeong**, "Design and Modeling of Multi-purpose Control System in a Hybrid Converter Considering Coupling Effect," in *proc. IEEE Energy Conversion Congress and Exposition (ECCE)*, Phoenix, AZ, Oct. 2024.

- [12] S. Kim, **Y. Jeong**, and J. -W. Nam, "Optimizing EV Chargers Location via Integer Programming," 2024 IEEE Transportation Electrification Conference and Expo (ITEC), Chicago, IL, USA, 2024, pp. 1-7.
- [13] *M. M. N. Alzyod*, A. T. Al-Awami, **Y. Jeong**, and S. Kim, "A Multi-Phase Energy Management System for Hybrid Fuel Cell Drones," 2024 IEEE Transportation Electrification Conference and Expo (ITEC), Chicago, IL, USA, 2024, pp. 1-6.
- [14] **X. Zhang**, M. Y. Kim, J. I. Kang and **Y. Jeong**, "A Scalable Multi-input Hybrid Converter for Energy Management Control in Hybrid Energy Systems Empowering Electric Mobility," *in proc. IEEE Energy Conversion Congress and Exposition (ECCE)*, 2023.
- [15] **X. Zhang**, K. W. Kim, M. Y. Kim, J. I. Kang, and **Y. Jeong**, "A New Multi-Output Structure with CRM Boost PFC Converter," *in proc. IEEE Energy Conversion Congress and Exposition (ECCE)*, 2023.
- [16] *Z. Xu*, M. Yu, Q. Yang, **Y. Jeong**, J. Cai and T. Wei, "A Novel FPGA-Based Circuit Simulator for Accelerating Reinforcement Learning-Based Design of Power Converters," *in proc. 2023 IEEE 34th International Conference on Application-specific Systems, Architectures and Processors (ASAP)*, 2023.
- [17] **S. Thurber**, J. Baek, and **Y. Jeong**, "An Auxiliary Circuit with a Flexible LC Resonant Tank for High-Efficiency and Low-Cost Totem-Pole Boost Bridgeless Power-Factor Correction Converter," *in Proc. IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2023.
- [18] **X. Zhang**, R. A. L. Rorrer, and **Y. Jeong**, "A Novel Digital Energy Management Control Strategy of a Fully Active Hybrid Converter for Unmanned Aerial Vehicle Applications," *in Proc. IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2023.
- [19] *Z. Xu*, M. Yu, Q. Yang, **Y. Jeong**, and T. Wei, "A Novel FPGA Simulator Accelerating Reinforcement Learning-Based Design of Power Converters," *Proceedings of the 2023 ACM/SIGDA International Symposium on Field Programmable Gate Arrays (FPGA)*, 2023.
- [20] *Z. Xu*, **X. Zhang**, T. Wei, K. W. Kim and **Y. Jeong**, "An FPGA-based Power Converter Simulation Accelerator Towards Highly Time-Efficient Machine Learning-Aided Design Methodology," *IEEE Energy Conversion Congress & Exposition (ECCE)*, 2022.
- [21] J. Y. Kim, **Y. Jeong**, and J. K. Kim, "Double-Voltage Charger for On-Board Charger With 800 V Battery," *The ICT-Future Vehicle session at ICNGC 2022*, 2022.
- [22] **X. Zhang**, K. W. Kim, and **Y. Jeong**, "Low Cost and Small Component Count Hybrid Converter with Energy Management Control for Unmanned Aerial Vehicle Applications," *in Proc. IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2022.

- [23] K. W. Kim, **Y. Jeong**, M. Y. Kim, and J. I. Kang, “High Efficiency Dual-Output LLC Resonant Converter with Synchronous Rectifier Control,” in *Proc. IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2022.
- [24] J. S. Choi, **N. Lee**, Y. -J. Cheon, S. W. Cho, H. -W. Kim, J. Koo, J. Choi, **Y. Jeong**, and T. Chung, “A Flat Architectural Wall Approach to Electrical Integration and Test for GK2A and GK2B,” in *Proc. IEEE Aerospace Conference*, 2022.
- [25] S. H. Lee, **Y. Jeong**, and J. K. Kim, “Integrated DC/DC converter for Reducing Voltage Stress and DC Offset Current of Transformer,” in *Proc. ICT-Future Vehicle Workshop 2021*, 2021.

(Before joining URI, Sep. 2020)

- [26] **Y. Jeong**, K. W. Kim, R. A. L. Rorrer, and J. D. Park, “A Novel Multi-Input and Single-Output DC/DC Converter for Small Unmanned Aerial Vehicle Applications,” in *Proc. 2020 IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2020, pp. 1302-1308.
- [27] **S. H. Ko**, **Y. Jeong**, B. H. Lee, R. A. L. Rorrer, and J. D. Park, “Asymmetric Dual Active Clamp Forward Converter with Phase-Shift Control for Small Conduction Loss,” in *Proc. 2020 IEEE Applied Power Electronics Conference and Exposition (APEC)*, 2020, pp. 1866-1871.
- [28] **B. Babaiahgari**, **Y. Jeong**, and J. D. Park, “A Stability Enhancement Method for DC Microgrids with Constant Power Loads Using Variable Inductor,” in *Proc. 2020 IEEE in Proc. Applied Power Electronics Conference and Exposition (APEC)*, 2020, pp. 2236-2240.
- [29] **M. H. Park**, **Y. Jeong**, D. Choi, D. M. Kim, and G. W. Moon, “Hold-up Time Extension Method in LLC Converter by Detecting Operation Region,” in *Proc. IEEE 9th International Power Electronics and Motion Control Conference (IPEMC2020-ECCE Asia)*, 2020, pp. 1706-1709.
- [30] **K. W. Kim**, **Y. Jeong**, J. S. Kim, J. E. Park, and G. W. Moon, “Low Common-Mode Noise Structure Based on Half-Bridge LLC Converter for Medium and High Power Applications,” in *Proc. IEEE 9th International Power Electronics and Motion Control Conference (IPEMC2020-ECCE Asia)*, 2020., pp. 640-643.
- [31] **M. S. Lee**, C. Y. Lim, **Y. Jeong**, T. W. Kim, and G. W. Moon, “A High Efficiency Phase-Shift Full-Bridge Converter with Improved Clamping Circuit to Eliminate Oscillation for EV Battery Charger,” in *Proc. IEEE 9th International Power Electronics and Motion Control Conference (IPEMC2020-ECCE Asia)*, 2020, pp. 1696-1701.
- [32] **Y. Jeong**, R. A. L. Rorrer, B. H. Lee, and J. D. Park, “A Novel Control Scheme for High Efficiency Fuel Cell Power Systems in Parallel Structure,” in *Proc. 2019 IEEE Energy Conversion Congress & Exposition (ECCE)*, 2019, pp. 940-946.
- [33] **B. Babaiahgari**, **Y. Jeong**, and J. D. Park, “Stability Analysis for Power Management Between

- Standalone DC Microgrids with Constant Power Loads,” in *Proc. 2019 IEEE Energy Conversion Congress & Exposition (ECCE)*, 2019, pp. 5778-5782.
- [34] M. H. Ullah, Y. Jeong, and J. D. Park, “Multi Agent-based Distributed Energy Arbitrage in Residential Distribution System,” in *Proc. 2019 IEEE Power and Energy Society General Meeting (PESGM)*, 2019, pp. 1-5.
- [35] D. K. Kim, Y. Jeong, J. E. Park, N. Y. Lee, and G. W. Moon, “Boost-Forward Integrated Converter for High Power Density Spacecraft Applications,” in *Proc. 2019 10th International Conference on Power Electronics and ECCE Asia*, 2019, pp. 1-6.
- [36] M. H. Park, Y. Jeong, D. K. Kim, K. M. Kim, and G. W. Moon, “Pre-Regulating Boost Converter with Asymmetric Half-bridge LLC Converter for DC Server Power Supply,” in *Proc. 2019 10th International Conference on Power Electronics and ECCE Asia*, 2019, pp. 1927-1932.
- [37] C. Y. Lim, Y. Jeong, M. S. Lee, Y. D. Lee, and G. W. Moon, “High Efficient Hybrid Converter Using Center-tapped Clamp Circuit,” in *Proc. 2019 10th International Conference on Power Electronics and ECCE Asia*, 2019, pp. 2067-2072.
- [38] D. K. Kim, Y. Jeong, J. I. Baek, J. E. Park, C. W. Lim, G. W. Moon, “High Efficiency and High Power Density Weinberg Converter Reducing Conduction Loss and Output Current Ripple for Space Applications”, in *Proc. Applied Power Electronics Conference and Exposition (APEC)*, 2019, 1583-1586.
- [39] Y. Jeong, M. H. Park, K. W. Kim, B. H. Lee, and G. W. Moon, “High Voltage Gain Interleaved Active-Clamp Forward (IACF) Converter having Reduced Primary Conduction Loss,” in *Proc. ECCE Asia*, 2018, pp. 838-844.
- [40] K. W. Kim, J. I. Baek, Y. Jeong, K. M. Kim, and G. W. Moon, “Analysis for High-Frequency LLC Resonant Converter with Planar Transformer at Light-Load Condition,” in *Proc. ECCE Asia*, 2018, pp. 2365-2369.
- [41] C. Y. Lim, Y. Jeong, K. W. Kim, F. S. Kang, and G. W. Moon, “A High-Efficiency Power Supply from Magnetic Energy Harvesters,” in *Proc. ECCE Asia*, 2018, pp. 2376-2379.
- [42] Y. Jeong, J. K. Kim, and G. W. Moon, “Analysis on half-bridge LLC resonant converter by using variable inductance for high efficiency and power density server power supply,” in *Proc. APEC*, 2017, pp. 170-177.
- [43] Y. Jeong, J. S. Park, J. K. Kim, C. Y. Lim, M. H. Park, and G. W. Moon, “A zero-voltage-switching dual boost power factor correction rectifier with active clamp circuit having minimized conduction losses,” in *Proc. ECCE Asia*, 2017, pp. 254-259.
- [44] M. H. Park, C. O. Yeon, J. I. Baek, Y. Jeong, G. W. Moon, and J. S. Park, “An improved current compensation method for high PF and low THD in digital boost power factor corrector,” in *Proc. ECCE Asia*, 2017, pp. 1065-1070.
- [45] C. Y. Lim, Y. Jeong, and G. W. Moon, “Phase leading input capacitor compensation using variable

- inductor with high efficiency in a CRM boost PFC,” in *Proc. ECCE Asia*, 2017, pp. 852-856.
- [46] **Y. Jeong**, J. I. Baek, J. Choi, and G. W. Moon, “Half Bridge LLC Resonant Converter with High Voltage Gain for Single-Phase AC/DC Power System,” in *Proc. ITEC Asia-Pacific*, 2016, pp. 573-578.
- [47] D. K. Kim, **Y. Jeong**, C. Y. Lim, B. Kang, and G. W. Moon, “Bidirectional Bridgeless PFC with Reduced Input Current Distortion and Switching Loss Using Gate Skipping Technique,” in *Proc. ITEC Asia-Pacific*, 2017, pp. 579-583 – **Best Paper Award**.
- [48] **Y. Jeong**, J. B. Lee, C. O. Yeon, C. Y. Lim, J. K. Han, and G. W. Moon, “Asymmetric Half-Bridge Resonant Converter having a Reduced Conduction Loss for DC/DC Power Systems with a Low Input Voltage,” in *Proc. ECCE Asia*, 2016, pp. 621-628.
- [49] J. K. Han, J. I. Baek, C. E. Kim, **Y. Jeong**, C. O. Yeon, and G. W. Moon, “A simple THD improving method for CCM boost PFC converter under mixed conduction mode operation,” in *Proc. ECCE Asia*, 2016, pp. 466-470.
- [50] J. I. Baek, J. Choi, **Y. Jeong**, Y. Jang, G. W. Moon, and C. H. Yu, “Asymmetrical Half-Bridge Converter with Reduced DC-offset current in Transformer,” in *Proc. ECCE Asia*, 2016, pp. 2249-2253.
- [51] C. Y. Lim, J. H. Kim, **Y. Jeong**, D. K. Kim, H. S. Youn, and G. W. Moon, “A High Efficiency Critical Mode Boost PFC Using a Variable Inductor,” in *Proc. ECCE Asia*, 2016, pp. 2792-2797.
- [52] S. W. Jwa, J. B. Lee, **Y. Jeong**, K. W. Kim, G. W. Moon, and J. H. Kim, “Active Clamped Current-Fed Full-Bridge Integrating LLC Converter with Low Current and Voltage Stress,” in *Proc. ECCE Asia*, 2016, pp. 3211-3217.
- [53] J. -W. Kim, J. -P. Moon, H. -S. Youn, **Y. Jeong**, and G. -W. Moon, “Phase Leading Input Current Compensation in Digitally Controlled CRitical Mode Boost PFC,” in *Proc. ECCE Asia*, 2015, pp. 2688-2695.
- [54] **Y. Jeong**, J. W. Kim, C. Y. Lim, D. K. Kim, J.I. Baek, and G. W. Moon, "A Strategic Control Scheme of Phase-Shift Full Bridge Converter for Improving Light-load Efficiency in Server Power System," in *Proc. ECCE Asia*, 2015, pp. 488-494.
- [55] D. K. Kim, C. O. Yeon, J. H. Kim, **Y. Jeong**, and G. W. Moon, “LLC Resonant Converter with High Voltage Gain Using Auxiliary LC Resonant Circuit,” in *Proc. ECCE Asia*, 2015, pp. 1505-1512.
- [56] **Y. Jeong**, C. E. Kim, S. Y. Cho, D. Y. Kim, and G. W. Moon, "Unexpected Bi-Directional Operation of Phase-Shift Full-Bridge Converter in Parallel Operation System," in *Proc. ECCE Asia*, 2013, pp. 999-1004.

PATENTS

U.S. Patents

- [1] **Y. Jeong**, Power Electronics-Activated Heating Method for Capacity Battery Capacity Restoration at Cold-weather [URI 2026-005] **(In progress)**
- [2] **Shaun Thurber** and **Y. Jeong**, Unbalanced Battery Management System (BMS) for Second-Life Battery Packs [URI 2026-004] **(In progress)**
- [3] **Sooran Pack** and **Y. Jeong**, A Simplified Nonlinear Component Model for High-Accuracy Time-Domain Circuit Simulations [URI 2026-002] **(In progress)**
- [4] **Shaun Thurber** and **Y. Jeong**, ARTIFICIAL INTELLIGENCE (AI)-BASED ENHANCED STATE OF HEALTH (SOH) ESTIMATION FOR BATTERIES UTILIZING PULSED DATA [URI 2025-012] **(Submitted)**
- [5] J. N. Lee and **Y. Jeong**, POWER SUPPLY APPARATUS, US.9263953.B2, 2016 **(Registered)**

Korean Patents

- [1] **Byounghee Lee**, **Y. Jeong**, Heterogeneous energy storage system and integrated charging system including the same, 2024 **(Submitted)**
- [2] S. H. Won, D. M. Jang, B. J. Choi, J. W. Kim, **Y. Jeong**, T. W. Heo, D. J. Park, J. K. Lee, D. S. Kim, and D. J. Kim, SERIAL COMMUNICATION APPARATUS, 1012876740000, 2013. **(Registered)**
- [3] B. J. Choi, D. M. Jang, J. W. Kim, **Y. Jeong**, T. W. Heo, S. H. Won, J. P. Kim, J. K. Lee, D. S. Kim, and D. J. Kim, MEASURING ROTATION SPEED OF FAN USINGING COUNTER, 1012737500000, 2013. **(Registered)**
- [4] **Y. Jeong**, C. E. Kim, J. P. Kim, and D. S. Kim, POWER SUPPLY WITH IMPROVED SYSTEM EFFICIENCY, 1011414160000, 2012. **(Registered)**
- [5] D. M. Jang, B. J. Choi, J. W. Kim, **Y. Jeong**, T. W. Heo, S. H. Won, J. P. Kim, J. K. Lee, D. S. Kim, and D. J. Kim, MONITORING APPARATUS OF POWER, 1011385900000, 2012. **(Registered)**
- [6] D. J. Kim, **Y. Jeong**, and D. S. Kim, POWER SUPPLY APPARATUS USING DUAL FEEDBACK CONTROL, 1012190010000, 2012. **(Extinguishment)**

ACADEMIC GRANTS/INDUSTRIAL PROJECTS

Total Funding: \$1,462,483 / PI Share: \$ 1,039,983

Title/Sponsor	Total Budget (Share)	Budget Period
Research on Design and Optimization of Single-Stage Point-of-Load (POL) Converters for Next-Generation Data Center Applications Infineon Technology	\$60,000 (Sole-PI: \$60,000)	Dec. 2025 – Dec. 2026 <u>Status: In Progress</u>
2025-2025 Proposal Development Grant Awards: AI/ML-	\$20,000	July 2025 – Jun. 2026

based Power Electronics Design Automation Framework Using Heterogeneous Computing University of Rhode Island (URI) Research Development	(Sole-PI: \$20,000)	<u>Status: Active</u>
Hardware-Accelerated Machine Learning (ML)-aided Electronic Design Automation (EDA) for Integrated Power Electronics Building Block (iPEBB) Office of Naval Research (ONR)	\$500,000 (Sole-PI: \$ 500,000)	Aug. 2024 – July 2029 <u>Status: Active</u>
Toward High Reliability: Novel Power Conversion System and Power Management Control for Water Monitoring Stations United States Geological Survey (USGS)	\$248,395 (Sole-PI: \$248,395)	Jan. 2024 – Jun. 2026 <u>Status: Active</u>
Mwani wa Jua: Innovative solar-powered seaweed drying to reduce poverty and improve nutrition in Tanzania Fish Innovation Lab (United State Agency of International Development)	\$500,000 (Co-PI: \$ 77,500)	Jan. 2025 – Dec. 2027 <u>Status: Terminated</u>
SELECT: Real-time Simulator and Educational Laboratory for Advanced Electric Transportation Technologies Champlin Foundation	\$134,088 (Primary-PI: \$ 134,088)	Jan. 2024 – Dec. 2024 <u>Status: Completed</u>

Student Support Fundings (Total: 14 students)

Title/Sponsor	Awardees	Budget Period
Undergraduate Research Assistant Fundings NDEP/NIUVT	Royal John S.	2025 – Present
	Isaac Barbosa	2024 – Present
	Helen Ly	2025 – Present
	Gianni Smith	2022 – 2025
	Patrick Feliz	2024 – 2025
	William Lucas	2025
	Mason Jacob	2023 – 2024
	Zachary Weinstein	2023 – 2024
	Alex Amado	2023 – 2024
	Zach Chofay	2022 – 2023
Edgar Ponce	2022 – 2023	
Undergraduate Research in Science and Engineering (URISE) College of Engineering	Arshaq Ahmed	Spring 2026
	TiJesunimi Okele	Spring 2026
	Brianna Garcia	Spring 2026
	Jasmine Morales	Spring 2026
	Sylas Wojciechowski	Fall 2024
	Sarah Eisenstein	AY 2024-2025
William Lucas	AY 2024-2025	
URI Enhancing Science, Technology, Engineering, and Math Education Diversity (URI ESTEEMED) National Institutes of Health (NIH)	Victoria Delacruz	2024 - Present

Student Research Fundings (Total: 13 projects, \$17,936)

Title/Awardee/Sponsor	Total Budget (Share)	Budget Period
Funding Proposal for URI Formula SAE - Chassis Components <i>Mike Amighi, Sophia Boardman, Grace Bateson</i> Office of Undergraduate Research and Innovation	\$1,400	2025-2026
Steering Wheel Components <i>Victoria Rowe, Kyle Benoit, Kaitlyn Kennedy</i> Office of Undergraduate Research and Innovation	\$1,400	2025-2026
Funding Proposal for URI Formula SAE Suspension Components <i>Andrew Harris, Paul Moura, Trae Rose</i> Office of Undergraduate Research and Innovation	\$1,400	2025-2026
IFEC 2025 Undergraduate Project Grant Proposal <i>William Lucas, Victoria Delacruz</i> Office of Undergraduate Research and Innovation	\$1,200	2025-2026
Arc Fault Detection with AI <i>Royaljohn Southammavong, Helen Ly, Isaac Barbosa</i> Office of Undergraduate Research and Innovation	\$1,400	2025-2026
Funding Proposal for URI Formula SAE Suspension Components <i>Isaiah Smith, Jacob Fernandes, and JD Mickel III</i> Office of Undergraduate Research and Innovation	\$1,400	2025-2026
Powertrain Design Team Engine Mounts and Fuel Cell <i>Gabriel Arabik, Nicholas O'Connor, Wilson El Hage</i> Office of Undergraduate Research and Innovation	\$1,400	2024-2025
Funding Proposal for URI Baja SAE Chassis <i>Mike Amighi, Paul Moura, Brianna Marandola</i> Office of Undergraduate Research and Innovation	\$1,400	2024-2025
Funding Proposal for URI Formula SAE Race Suspension Design Analysis <i>Ryan Hirsch, Andrew Harris, and Isaiah Smit</i> Office of Undergraduate Research and Innovation	\$1,400	2023-2024
URI Formula SAE Brake System Research <i>Joey Hook, Nicholas Caito, and Jeremy Herrera San</i> Office of Undergraduate Research and Innovation	\$1,400	2023-2024
URI Baja SAE Chassis Design Research Project <i>O'Malley Sherlock, Joshua Weiss, and Peter Hernandez</i> Office of Undergraduate Research and Innovation	\$1,400	2023-2024
Telemetry and Control System for URI's First Formula SAE Style Car <i>Nathan Mendoza, Liam Crisfield, and Jack Petrarca</i> Office of Undergraduate Research and Innovation	\$1,400	2023-2024
Funding Proposal for IFEC 2023: Solid State Transformer (SST) Project <i>Nicholas Costick, Edgar Ponce Baldelamar, and Zachary Chofay</i>	\$1,336	2022-2023

Previous Academic/Industry Projects

Title/ Sponsor	Budget Period
DARPA Subterranean (SubT) Challenge, Team MARBLE The Defense Advanced Research Projects Agency (DARPA)	2018-2019
AC/DC server power systems with 800 W, 1.6 kW, and 2.0 kW Solu-M	2015-2018
AC/DC and DC/DC server/network power systems with 300 W, 450 W, 700 W, 750 W, 1.6 kW, and 2.0 kW Samsung Electro-Mechanics	2008-2015

STUDENT ADVISING

• Graduate Research Assistant		
Youngkeun Kim	PhD Program	Spring 2026 (Upcoming)
Sooan Pack	PhD Program	Fall 2025 – Present
Xueshen Zhang	PhD Program	Fall 2021 – Fall 2025
Shaun Thurber	Master’s Program	Fall 2022 – Summer 2025
• Undergraduate Research Assistant		
Isaac Barbosa	Junior	Spring 2025 – Present
Helen Ly	Sophomore	Spring 2025 – Present
Scott Jiang	Freshman	Summer 2026 – Present
Royaljohn Southammavong	Senior	Summer 2025 – May 2026
Marc Delgado	Senior	Spring 2025 – May 2026
Ryan Connelly	Junior	Spring 2026
Jasmine Morales	Junior	Spring 2026
Arshaq Ahmed	Sophomore	Spring 2026
Brianna Garcia	Sophomore	Spring 2026
TiJesunimi Okele	Freshman	Spring 2026
Chris McRae	Junior	Fall 2025
Michael Studley	Junior	Fall 2025
Laila Ghazi	Senior	Summer 2025– Fall 2025
Thomas Vrankar		Summer 2025
Joseph Rose		Spring 2025
Sarah Eisenstein		Fall 2024 – Spring 2025
William Lucas		Fall 2024 – Spring 2025
Kyle Ludwig		Fall 2024
Patrick Feliz		Summer 2024 – May 2025
Victoria Delacruz		Spring 2024 – Spring 2025
Mason Jacob		Fall 2023 – May 2025
Zachary Weinstein		Fall 2023 – Fall 2024
Gianni Smith		Fall 2023 – May 2025
Alex Amado		Spring 2023– May 2024
Steven Kowalewski		Spring 2022– May 2024

Edgar Ponce		Fall 2022– May 2023
Zach Chofay		Fall 2022– May 2023
Shaun Thurber		Spring 2022– May 2022
Christopher Charron		Spring 2022– May 2022
Nataly Karnaukh		Spring 2022– May 2022
• Visiting Students		
Taegu Kang	Inha University	Summer 2026 – Present
Nahyun Lee	Dongduk Women’s University	May 2025 – Nov. 2025
Sooan Pack	Kyungpook National University	Dec. 2024 – July 2025
GyeongHyun Kwon	Incheon National University	Sep. 2024 – Feb. 2025
Young-keun Kim	Incheon National University	Sep. 2024 – Feb. 2025
Hailey Haesung Oh	Univ. of Southern California	May 2024 – Aug. 2024
Woo-Seong Baek	Sogang University	March 2024 – June 2024
Taewoo Kim	KAIST	March 2024 – May 2024
Yun-gi Kwak	Hanbat National University	July 2022 – Aug. 2022
• Faculty Advisor, URI Formula SAE Club		
Plan to participate in 2026 SAE Competition		2021 – 2026
• Faculty Advisor, URI International Future Energy Challenge (IFEC) Team		
2025-2026 IFEC Competition Participation		
2024-2025 IFEC Competition Participation (Semi-final)		
2023-2024 IFEC Competition Participation (Semi-final, 3rd Place)		2022 – Present
2022-2023 IFEC Competition Participation (Semi-final)		
• Graduate Thesis Committee		
Harishjitu Saseendran	Master’s degree (Industrial Eng.)	Spring 2026
Brian Dunbar	Master’s degree (Industrial Eng.)	Fall 2025
Frank Danso	Master’s degree (Electrical Eng.)	Fall 2025
Emma Pensky	Master’s degree (Industrial Eng.)	Summer 2025
Ivy Ozuna	Master’s degree (Industrial Eng.)	Spring 2025
Jonathan Davila	Master’s degree (Non-thesis)	Spring 2025
Sungyoun Seo	Master’s degree (Electrical Eng.)	Spring 2025
Chandra Prasad Neupane	Ph.D. Degree (Physics)	Summer 2024
Adelina Herbst	Master’s degree (MISE)	Spring 2024
Kevin Rivera	Ph.D. Degree (Chemical Eng.)	Fall 2022
James Morris	Master’s degree (Electrical Eng.)	Summer 2024
Mehrsa Khaleghikarahodi	Ph.D. Degree (MISE)	Spring 2023
Kevin Rivera	Master’s degree (Electrical Eng.)	Fall 2022

STUDENT AWARDS

Title/Awardees/Sponsor	Total Award	Budget Period
2025-2026 IEEE PES Scholarship Plus		
<i>Helen Ly</i>	\$3,000	2025-2026
IEEE Power & Energy Society		
ECCE Student Travel Support		
<i>Changseok Kim</i>	\$750	Oct. 2025

IEEE ECCE Conference Organization		
2025 The SMART Scholarship-for-Service Program		
<i>Gianni Smith</i>	Full scholarship for	2025-2029
Department of Defense	PhD program	
SDEMPED 2025 Student Travel Support		
<i>Youngkeun Kim</i>	\$600	Aug. 2025
IEEE SDEMPED Conference Organization		
2024-2025 IEEE PES Scholarship Plus		
<i>Aaron Phare</i>	\$2,000	2024-2025
IEEE Power & Energy Society		
Dean's Fellowship		
<i>Xueshen Zhang</i>	Full scholarship for	2024-2025
University of Rhode Island	AY2024-2025	
ECCE Student Travel Support		
<i>Xueshen Zhang</i>	\$750	Oct. 2024
IEEE ECCE Conference Organization		
URI COE Graduate Travel Awards		
<i>Xueshen Zhang</i>	\$400	Oct. 2024
College of Engineering, University of Rhode Island		
URI COE/ECBE Travel Awards		
<i>Alex Amado</i>	\$1,000	March 2024
College of Engineering/ECBE, University of Rhode Island		
URI COE/ECBE Travel Awards		
<i>Sylas Wojciechowski</i>	\$1,000	March 2024
College of Engineering/ECBE, University of Rhode Island		
Outstanding Teaching Assistant Award (1st Place)		
<i>Shaun Thurber</i>	-	May 2023
ECBE Department, University of Rhode Island		
Outstanding Research Assistant Award (2nd Place)		
<i>Xueshen Zhang</i>	-	May 2023
ECBE Department, University of Rhode Island		
URI COE Graduate Travel Awards		
<i>Xueshen Zhang</i>	\$400	March 2023
College of Engineering, University of Rhode Island		
URI COE Graduate Travel Awards		
<i>Xueshen Zhang</i>	\$400	Oct. 2022
College of Engineering, University of Rhode Island		
APEC Student Travel Support		
<i>Xueshen Zhang</i>	\$1,000	March 2022
IEEE APEC Conference Organization		

TEACHING

Course Number – Title		Semester / Year
ELE 449/559 – Power Electronics Design Lab	<i>In a Curriculum</i>	Spring 2026
ELE 446/556 – Introduction to Power Electronics		Fall 2025
ELE 449X – Power Electronics Design Lab	<i>Developed In a Curriculum</i>	Spring 2025
ELE 446/556 – Introduction to Power Electronics		Fall 2024
ELE 449X – Power Electronics Design Lab	<i>Developed In a Curriculum</i>	Spring 2024
ELE 446/556 – Introduction to Power Electronics		Fall 2023
ELE 322 – Electromagnetics I	<i>Developed</i>	Spring 2023
ELE 446X – Introduction to Power Electronics		Fall 2022
ELE 343 – Electronics II	<i>Developed</i>	Spring 2022
ELE 446X – Introduction to Power Electronics		Fall 2021
ELE 343 – Electronics II		Spring 2021

Professional Certificates

Program Title	Organization	Completion Date
Entering Mentoring Facilitator Training	<i>CIMER</i>	Jan. 26-30, 2026

ACADEMIC SERVICES

URI Open House & Welcome Day <i>ELE Representatives</i>	2026
URI Open House & Welcome Day <i>ELE Representatives</i>	2025
Electrical Engineering Tenure-Track Faculty Search Committee <i>Search Committee Member</i>	2024
URI Open House & Welcome Day <i>ELE Representatives</i>	2024
2024 Champlin Foundation Internal Review Committee <i>Champlin Review Committee Member</i>	2024
Electrical Engineering Tenure-Track Faculty Search Committee <i>Search Committee Member</i>	2023
URI Open House & Welcome Day <i>ELE Representatives</i>	2023
URI Open House & Welcome Day <i>ELE Representatives</i>	2022
Electrical Engineering Technician Search Committee <i>Search Committee Member</i>	2021

PROFESSIONAL SERVICE

Associate Editor, <i>Journal of Power Electronics</i>	2025 – Present
Publication Chair, 2026 IEEE International Conference on Intelligent Design and Control of Automation and Drive Systems (IDCD)	2025 – Present
Technical Committee Member, IEEE Heterogeneous Integration Road Map – Chapter 10 Integrated Power Electronics Technical Working Group (Leading) IEEE-EPS Power & Energy Technical Committee (P&E TC)	July 2024 – July 2025
Technical Committee Member, IEEE 2025 IEEE Electric Ship Technologies Symposium (ESTS)	2024 – 2025
Publication Chair, IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) 2025	2024 – 2025
Technical Programming Committee, IEEE Workshop on Control and Modeling of Power Electronics (COMPEL 2025)	June 2025
Technical Session Chair, IEEE Energy Conversion Congress and Exposition (ECCE)	Oct. 2025
Track Chair, IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) 2025	Aug. 2025
Track Chair, IEEE 2025 IEEE Electric Ship Technologies Symposium (ESTS)	Aug. 2025
Technical Session Chair, IEEE Energy Conversion Congress and Exposition (ECCE)	Nov. 2024
Technical Session Chair, ICPE 2023 – IEEE ECCE Asia Conference	May 2023
Technical Session Chair, IEEE Applied Power Electronics Conference (APEC)	March 2023
Technical Session Chair, IEEE Energy Conversion Congress and Exposition (ECCE)	Nov. 2023
NSF Panel Reviews	2023-2026
IEEE Senior Member Review Panel	Jan. 2026
Journal/Conference Reviewer	
<ul style="list-style-type: none"> • IEEE Transactions on Industrial Electronics • IEEE Transactions on Power Electronics • IEEE Transactions on Energy Conversion • IEEE Transactions on Industry Applications • IEEE Transactions on Transportation Electrification • IEEE Journal of Emerging and Selected Topics in Power Electronics • IEEE Access • KIPE Journal of Power Electronics • IEEE Applied Power Electronics Conference (APEC) • IEEE Energy Conversion Congress and Exposition • IEEE Energy Conversion Congress and Exposition Asia • IEEE Wireless Power Transfer Conference • AIAA Propulsion & Energy Forum 	
Chapter Secretary, PELS IEEE Power Electronics Society (PELS) Boston Chapter	2024 – 2025
Branch Director, Korean Institute of Power Electronics (KIPE) – North America	2023 – 2024

INVITED SEMINARS/PRESENTATIONS

Yeonho Jeong – University of Rhode Island

Digital Twins Overview for Engineering. Introduction to digital twin concepts, modeling approaches, and engineering applications	Kingston, RI
<i>CYPHER Integrated Project Team (IPT) Meetings 2026</i>	June 2026
Time-efficient Machine Learning (ML)-aided Electric Design Automation (EDA) for Power Electronics Building Block	Virtual
<i>ONR Basic Research Review</i>	Jan. 2026
[Power Electronics] Multi-purpose Hybrid Power Conversion Systems for Multi-Source Electric-Mobility Applications	South Korea
<i>Dankook-Gyeonggi Academia-Industry Alliance Global Conference on Advanced Mobility</i>	Nov. 2025
Time-efficient Machine Learning (ML)-aided Electric Design Automation (EDA) for Power Electronics Building Block	Miami, FL
<i>ONR Control Program Review, FIU</i>	Sep. 2025
Advanced Electronics/Power Electronics Circuits (Inviting Hanbat National University)	Kingston, RI
<i>University of Rhode Island</i>	July 2025
Enhanced Power Switch Modeling in Modified Nodal Analysis for Fast Circuit Simulation Using FPGA Accelerators	South Korea
<i>Korea Advanced Institute of Science and Technology (KAIST) Hanbat National University</i>	July 2025
Hybrid Power Conversion Systems and Virtual Prototype Implementation for Multi-Source Applications	South Korea
<i>Konkuk University Ulsan University Jeonbuk University</i>	June/July 2025
Research on Simplified Hybrid Power Conversion Systems with Integrated Energy Management and Scalable Design for Small UAV	Storrs, CT
<i>The 1st Northeast Power Electronics Symposium (NEPES 2024), UConn</i>	Nov. 2024
Novel Power Conversion and Energy Management Control for Water Monitoring Systems	Webinar
<i>NIC/NGWOS Research and Development Seminar</i>	Nov. 2024
Time-efficient Machine Learning (ML)-aided Electric Design Automation (EDA) for Power Electronics Building Block	Cambridge, MA
<i>ONR PEPDS Program Review, MIT</i>	Nov. 2024
Technology Trends in Electronics Design Automation for Power Conversion Systems	Webinar
<i>Korean Institute of Power Electronics (KIPE)</i>	Sep. 2024
Time-efficient Machine Learning (ML)-aided Electric Design Automation (EDA) for Power Electronics Building Block	Ann Arbor, MI
<i>ONR Controls S&T Program Review, University of Michigan Ann Arbor</i>	Spe. 2024
Time-Efficient Machine Learning-aided Electric Design Automation (EDA) for Power	Jinju, South

Conversion Systems	Korea
<i>The 1st KIPE Electrification Workshop, Gyeong-sang National University</i>	Aug. 2024
Time-Efficient Machine Learning-aided EDA for Power Conversion Systems	
<i>Kunkuk University, Incheon National University, Inha National University, Dankook University</i>	South Korea Aug. 2024
Time-Efficient Machine Learning-aided Electric Design Automation for Power Conversion Systems Enabled by FPGA Accelerators: A Fast Power Converter Auto Designer	Webinar
<i>Hanbat National University</i>	July 2023
Time-Efficient Machine Learning-aided Electric Design Automation for Power Conversion Systems Enabled by FPGA Accelerators: A Fast Power Converter Auto Designer	Webinar
<i>Ajou University</i>	July 2023
Future of Mobility [Panelist] Future Science and Technology Session	Seoul, South Korea
<i>The 1st World Congress of Korean Scientists and Engineers</i>	July 2023
Time-Efficient Machine Learning-aided Electric Design Automation for Power Conversion Systems Enabled by FPGA Accelerators: A Fast Power Converter Auto Designer	Chungju, South Korea
<i>Korea National University of Transportation</i>	May 2023
Time-Efficient Machine Learning-aided Electric Design Automation for Power Conversion Systems Enabled by FPGA Accelerators: A Fast Power Converter Auto Designer	Jeonju, South Korea
<i>Jeonbuk National University, Jeonju, South Korea, May 2023</i>	May 2023
High-Efficiency Topologies for Industrial Applications in Power Electronics	Kingston, RI
<i>University of Rhode Island</i>	Feb. 2020
High-Efficiency Topologies for Industrial Applications in Power Electronics	Dearborn, MI
<i>University of Michigan Dearborn</i>	Feb. 2020
High-Efficiency Topologies for Industrial Applications in Power Electronics	Bronx, NY
<i>Manhattan College</i>	Feb. 2020
Introduction of Power Electronics and Server Power Systems	Denver, CO
<i>University of Colorado Denver</i>	Oct. 2018
State of the art for Server Power Systems	Yongin, South Korea
<i>Myung-ji University</i>	Aug. 2018

Community Engagement

Break Into Engineering Program (High School Students)	April 2026
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University of Rhode Island

Lab Tour for Navy Stem Visitors (K-12 Teachers)

Aug. 2025

University of Rhode Island

Lab Tour for GDEB Math Boot Camp (Incoming URI Freshmen STEM Majors)

Aug. 2025

University of Rhode Island

Break Into Engineering Program (High School Students)

April 2025

University of Rhode Island

2024/2025 RI National Guard STEM Innovation Day [Rhody Racing Team]

2023, 2024

Rhode Island National Guard

URI Navy STEM Camp (Middle School Students)

Summer 2024

University of Rhode Island

Seminar and Lab Tour for Professional Development Workshops (Grades 3-5 Teachers)

2024

University of Rhode Island

Mentor, North Kingstown High School Science Fair (DC Generator, Abigail Senenko)

2023

University of Rhode Island

**GEMS-Net Navy/STEM (Grades 3-5) Asynchronous Classroom Resource Development
Available at <https://web.uri.edu/gemsnet/navy-stem-resources/>**

2023

University of Rhode Island