Any engineering major may declare a “Minor in Robotics Engineering” field of study, which will be listed on the student’s academic record after graduation. Requirements may be satisfied by completing 18 credit hours. Student must complete one of the following options, as well as an additional two courses (6 credits) from the list of supporting courses. Major does not restrict the choice of option.

**Option 1, Ocean Engineering Focus:** (12 credits)
- Linear Algebra (MTH 215)
- Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall semester)
- Robotic Ocean Instrumentation Design (OCE360)
- Design of Remotely Operated Vehicles (OCE467)

**Option 2, Mechanical Engineering Focus:** (12 credits)
- Linear Algebra (MTH 215)
- Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall semester)
- Control Systems (MCE431)
- Mechatronics (MCE433)

**Option 3, Electrical Engineering Focus:** (12 credits)
- Linear Algebra (MTH 215)
- Foundations of Robotics (ELE/MCE/OCE 456) (offered Fall Semester)
- Digital Control Systems & Lab (ELE 458/459)
- Mobile Computing (ELE 470)

**Supporting Courses: (Choose 2 other courses - 6 credits total.)**

<table>
<thead>
<tr>
<th>Offered during a typical Fall semester</th>
<th>Offered during a typical Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical</td>
<td>Mobile Computing</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Mechatronics</td>
</tr>
<tr>
<td>Ocean</td>
<td>Robotic Ocean Instrumentation Design</td>
</tr>
<tr>
<td></td>
<td>Hydrodynamics</td>
</tr>
</tbody>
</table>

*may not be counted toward minor requirements for ELE majors

**may not be counted toward minor requirements for MCE majors

2. With prior approval, supporting courses may be substituted with appropriate other courses including special projects.

3. Application for the robotics engineering minor must be filed in the Engineering Dean’s Office any time before graduation.
Program Coordinators

**Mechanical Engineering Focus**
Musa Jouaneh, Professor
Department of Mechanical, Industrial, and Systems Engineering
University of Rhode Island

**Ocean Engineering Focus**
Stephen Licht, Assoc. Professor
Department of Ocean Engineering
University of Rhode Island
215 South Ferry Rd., Sheets 211
Narragansett, RI 02882

**Electrical Engineering Focus**
Richard Vaccaro, Professor
Department of Electrical, Computer, and Biomedical Engineering
University of Rhode Island

+1 401.874.2349
email: jouaneh@uri.edu

+1 401.874.6028
email: slicht@egr.uri.edu

+1 401.874.5816
email: vaccaro@ele.uri.edu