

ELECOMP Capstone Design Program
Fall 2026 Semester
Weekly Progress Report (WPR): EXAMPLE

Example only. Bayside Instruments, TideWatch, Jordan Rivera and the TD named below are fictional. Your WPR uses this same layout, filled in with your own project. WPR#1 covers project goals and the kick-off meeting; no technical progress is expected yet.

ELECOMP Capstone: WPR: Bayside Instruments: TideWatch Low-Power Tide Monitor

Capstone Designer Name: Jordan Rivera

WPR#1: Date Posted: Sunday, September 27, 2026

1. My Technical Responsibilities in bullet form; updated from last week.

- Power subsystem: battery selection, solar charging circuit, and the system power budget
- Water level sensing: select the pressure sensor and design its interface to the MCU
- Low-power firmware: sleep modes and wake timing on the MCU (shared with Priya Natarajan, who owns the radio link)
- Bench validation: sleep current measurement and sensor calibration
- Risk tracker: own the power and sensing entries in the team Capstone Risk Tracker

2. My Technical Accomplishments for the past week. (Bold items from list in 1.)

- Kick-off meeting with our TD, Dana Okafor, Friday 9/25. Agreed project goals: node runs 6 months on one battery with solar top-up, logs water level every 10 minutes, accuracy within 1 cm, and sends data once per hour.
- Agreed the split of work with Priya: I own power and sensing, she owns the radio and data path.
- **Power subsystem:** read last year's prototype report from the TD and listed its three failure points (battery drain in cold weather, no charge controller, sensor always powered).
- **Water level sensing:** reviewed the TD's sensor requirements (0 to 5 m depth range still to be confirmed, see item 6).
- Set up my logbook entries for 9/18 to 9/27 and logged all hours in my timesheet the same day.

3. Self-Evaluation of what was promised for the past week: what was accomplished and what was not and why?

Not required for WPR#1. Starting with WPR#2, this section checks what I promised in item 4 below.

4. What I will accomplish during the upcoming Tuesday, and also during the Next Week. (you can highlight these from list in 1)

- **Tuesday 9/29:** draft the system block diagram with Priya and list 5 candidate pressure sensors.
- **Next week:** first-pass **power budget** (sleep, sample and transmit currents); shortlist 3 sensors with range, accuracy and supply current; pick a dev board for the Friday 10/2 TD meeting.

5. Schedule Assessment of My Individual Tasks: Screenshot or copy from your program management tool. (if NOT on Schedule, planned work and timeline to get back on schedule)

Not required for WPR#1. From WPR#2 on, paste a screenshot of your tasks from your team's tool and say whether you are on schedule.

6. Urgent Questions for TDs or Dr. Sunak: email these directly to them

- Emailed Dana Okafor on 9/26: what is the maximum deployment depth? It sets the pressure sensor range, so I need it before the shortlist next week.