Eric Laurin

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Personal Summary:

A dual-degree Electrical and Computer Systems Engineer from the University of Georgia, I have garnered experience in embedded systems, hardware, and software through hands-on internships and academic projects. My experience ranges from individually designing TCP-based solutions to working with large engineering teams on radar applications. Eager to leverage my knowledge in embedded systems, software, and robotics, I am passionate about driving innovations in the tech industry. I am looking for a challenging role in embedded systems or robotics where I can contribute and grow.

Education:

- **BSEE** - Electrical Engineering | University of Georgia | 3.59 GPA | August 2020 – May 2024
- **BSCSE** - Computer Systems Engineering | University of Georgia | 3.59 GPA | August 2020 – May 2024
- **Minor** - Computer Science

Work Experience:

- **Embedded Systems Intern |** Georgia Tech Research Institute | May 2023 – August 2023 | Atlanta, GA
  - Assisted with the design, development, testing and integration of custom or COTS computing, signal processing, or communication circuit cards in embedded products for Radar applications.
  - Gained experience working with large engineering teams (30+) using agile development.
- **Student Software / Hardware Developer** | UGA | January 2023 – May 2023 | Athens, GA
  - TCP-Based Remote Lab Communication Solution
  - Designing portable software in C++ for low latency communication and control of remote hardware.
  - Creating a webserver for multiplexing Lab to Student TCP connections based on scheduling data.
  - Writing custom website for students to schedule timeslots and interact with remote labs.
- **Sensors and Transducers Course Assistant** | UGA | August 2022 – December 2022 | Athens, GA
  - Created new course materials, new labs and assisted students with course material.
  - Developed remotely accessible labs to leverage modern embedded platforms and integrated with IOT data collection services to bring lab data into MATLAB for remote access by students over the internet.
- **Engineering Intern** | Automation Direct | May 2019 – August 2020 | Cumming, GA
  - Fabricated product demonstration fixtures to market functions and capabilities of new or poorly documented products.
  - Collaborated alongside social media team of 5 members to promote products on YouTube channel.
  - Prepared and organized event materials for robotics community outreach. 50+ team events.

Skills:

- **Programming**
  - C | C++ | Java | MATLAB | Python | API Development
- **Embedded Development**
  - esp32| ARM | AVR | Arduino | PLC
- **Test and Measurement Equipment**

Activities/Leadership/Projects:

- Crawlspace Inspection Robot (May 2021 - Present)
  - Delivering new inspection robot leveraging existing electronic components to reduce costs.
  - Targeting reduced price points to undercut competing products and create compelling value for small business owners. Competition: > $1800, My target price is <$1000.
- Capstone Design Project for Siemens CNC. (August 2022 - Present)
  - Developed sensor fixture, data acquisition system and IOT cloud interface to aid in the research of thermal models for aluminum based additive manufacturing.

President of Competitive Robotics Club (August 2017 – May 2020)

- Led team of 18 students through 3 different robotics competitions. Worked in small (2-3) and large (12+) group settings.
- Competed in Vex Robotics, First Robotics Competition and BEST Robotics.