

William Lauer

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Objective

Electrical Engineering major with strong communication and inventive problem-solving skills as well as management and collaborative-project experience. Helped maintain >90% shipping rate in a factory environment. Works well with others and specializes in Electrical Energy Systems and Cyber Security. Interested in software development and seeking an internship in hardware & software systems, software engineering, or related field for Summer 2024.

Education

Georgia Institute of Technology | Atlanta, GA | GPA: 3.19

Bachelor of Science in Electrical Engineering

August 2022 – Present
Expected Graduation, May 2026

Skills

Programming: C, Assembly, Python, JavaScript, CSS, Visual Basic, ReactJS, HTML (Novice)

Hard Skills: Analog Circuitry, Soldering, Welding, Operating forklifts

Software: KiCad, AutoCAD, Fusion360, Saturn PCB Toolkit, Proficy iFix, Excel, IGS (Beginner), SolidWorks (Beginner)

Languages: Russian (6 years, Conversational), English (native)

Communication: IO Tracking, Code revision, Design reports,

Experience

Rovisys–CSI Division | Aurora, Ohio

May 2023 – August 2023

Systems Co-op

- Developed HMI graphics and user-forms for chemical manufacturer PPG.
- Linked HMI graphics with IGS PLC software.
- Produced and revised drawings for Lima Chemical in AutoCAD from redline PDFs (32 total Drawings).
- Initialized and installed 120+ PLC modules and set up 2 panel views for a Bunge Limited project shutdown.
- Measured the scope of a project kick-off by creating a spreadsheet to track total IO modules required.

Troy Chemical | Troy, Ohio

May 2022 – August 2022

Chemical Compounder

- Helped in raising shipping success rate to >90% for end of Q1 and into Q2.
- Modified controls to regulate temperature, pressure, feed and flow of liquids and gases.
- Proficient in operating 4 different forklifts and other heavy machinery (gas & electric).
- Operated industrial mixing equipment.
- Worked 42 hours a week to pay for college expenses.

Projects

Pic Purge | In Collaboration w/Logan Fouts, github.com/Logan-Fouts/PicPurge

Jul-Sept 2023

PicPurge is a desktop application that uses a machine-learning python API to remove duplicate photos from your folder of choice automatically. The work I did pertains to the backend algorithm optimization, front-end UI design, and implementation.

- Utilized ReactJS to create a webapp, which we then packaged with Electron to make a desktop app.
- Planned approach to UI with Figma design software.

Precharge Board | Georgia Tech Solar Racing, SR4, github.gatech.edu/GTSR/board-precharge-board

Feb-Apr 2023

In a group of 4, we created a precharge PCB that controls the precharge cycle of the SR4 vehicle. We used KiCad PCB software to design a schematic and PCB for the board before printing it and integrating it into the SR4.

- Simulated circuit layouts in Falstad circuit simulator and Saturn PCB Toolkit.
- Calculated power dissipation across different resistor combinations to be within allowable limits.

Activities

Georgia Tech Solar Racing | Batteries and BMS sub-team member

August 2022 – Current

Georgia Tech Hacky Sack | Founder and President

May 2023 – Current

See my website for more information and additional works that did not make it to this page:

wlauer.com