William Lauer

11535 Colchester Drive, Chagrin Falls Ohio, 44023 | 440-991-6066 | wlauer3@gatech.edu | U.S Citizen | wlauer.com

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 specializing in Electrical Energy Systems and Cyber Security. Interested in software development and seeking an internship in energy systems, software engineering, or related field for Summer 2024.

Education

Georgia Institute of Technology | Atlanta, GA | GPA: 3.19   August *2022 – Present*
Bachelor of Science in Electrical Engineering   Expected Graduation, May 2026

Skills

Programming: Java, JavaScript, CSS, VisualBasic, ReactJS, HTML (Novice), TypeScript (Novice)
Circuit Building: Breadboarding, PCB Design
Software: KiCad, AutoCAD, Fusion360, Git, Proficy iFix, Excel, IGS (Beginner), SolidWorks (Beginner)
Languages: Russian (conversational), English (native)
Communication: IO Tracking, Design reports, Professional Presentation

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 project Shutdown.
- Created a spreadsheet to track total IO modules required for a project kick-off to gauge scope.

Troy Chemical | Troy, Ohio   *May 2022 – August 2022*
Chemical Compounder
- Helped in raising shipping success 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 removes duplicate photos from your folder of choice automatically. The work I did pertains to the 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, solarracing.gatech.edu   *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.*
- *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 portfolio for more information and additional works that did not make it to this page: wlauer.com