Luke Shuttleworth

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Objective

Mechanical Engineering and Computer Science student with hands-on experience in embedded systems, test automation, and product engineering. Seeking a full-time engineering role where I can apply software–hardware integration skills, automation, and systems thinking to real-world products.

Education

- Iowa State University – Mechanical Engineering – Anticipated Bachelor May 2027
  - GPA – 3.31/4.00.
  - Ames, Iowa.
  - Computer Science minor anticipated 2027.
- Cedar Falls High School – Fall 2020 to Spring 2023 – Graduated May 2023
  - GPA – 4.27/4.00.
  - Cedar Falls, Iowa.

Work Experience

- John Deere ISG – Summer 2025 to Present
  - **Product Engineering Part-Time Student** – Supported test automation for Linux-based display systems to ensure safety and reliability of equipment controls. Built hardware test setups for automated development testing. Utilized Jenkins, CI, QT Squish, Python, C, AI, and CAN/automotive ethernet protocols.
- University of Alabama Huntsville – 2025 Spring Semester
  - **VIVID Cybersecurity Research Intern** – Modeled smart house technologies and secured IoT networks. Worked with OpenPLC, ScadaBR, Linux command line, Python, and Git.
- Cedar Falls Utilities – Summers 2023 and 2024
  - **Gas and Water Planning Intern (2024)** - Automated several systems, including flood warning, construction requests, and others to reliably notify employees and remove repetitive tasks from employee's workflows. Utilized Python integrations with ArcGIS Pro Online and Microsoft Power Automate.
  - **Gas Maintenance Technician Intern (2023)** – Maintained gas and water infrastructure across Cedar Falls. Utilized ArcGIS software with GPS technologies for field operations.
- Prairie Lakes Church – Summer 2023
  - **Project Management Intern** - Developed, executed, and oversaw procedures that saved $2000. Additionally managed a project budgeted at $5000.

Skills

- **Technical**: CAM, manufacturing, CNC, 3D printing, Embedded systems, automation, continuous integration.
- **Software**: SolidWorks, OnShape, Autodesk Fusion360 and Inventor CAD programs, Microsoft Suite, Jenkins.
- **Programming**: Python, Java, JavaScript, HTML, MATLAB, Linux Server/desktop experience, VMware, command line.
- **Other**: SCADA systems, HMI and PLC development. CAN networks, automotive ethernet protocols.
- **Languages**: German (basic proficiency).

Hobbies

- Embedded systems design through ESP32 microcontrollers, Arduino, etc.
- Design process, 3D printing/manufacturing, and problem solving.
- Projects: custom Smart Home accessories, 3D printed mechanical systems, self-hosted servers, IoT, Machine Learning/AI.

Honors and Awards

- Iowa State University Dean's List, 2023-2024.
- 1st place Cybersecurity and 2nd place Computer Problem Solving at FBLA nationals, 2023.
- Completion of Iowa State University Vehicle Technology Bootcamp.