Samuel Witte

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EDUCATION

University of Iowa - Iowa City, IA
BSE Electrical Engineering — Aug 2020 - Present

Computer Focus Focus Area of Computer Hardware Anticipated Graduation Spring 2025

EXPERIENCE

ELECTRICAL DESIGN INTERN , SSC Engineering, Inc.
Chesterfield, MO — Dec 2021 - Jan 2022, May 2022 - Aug 2022

- Programmed and maintained automation scripts to save 40+ hours monthly
- Designed electrical layouts for commercial buildings with Revit and AutoCAD to address daily client specifications
- Enabled teams of up to 4 to complete individualized work, followed by whole-team validation to ensure quality and execution

PROJECTS

HPR Flight Computer	Makes and records measurements in-flight for analysis post-flight using a microcontroller interfaced with sensors via I2C. Developed and assembled custom PCB. Made for personal interest and use in HPR rockets for rocketry club
Cryptocurrency Counter	Makes real-time estimates on cryptocurrency balance utilizing Python, APIs, and a Raspberry Pi Zero. Built to monitor personal balance without checking external websites and to experiment with 7-segment displays
Custom Mechanical Keyboard	Uniquely-shaped keyboard PCB designed with KiCad. Plate and case modeled with Fusion 360. Created out of personal interest and curiosity of CAD and EDA software

LEADERSHIP EXPERIENCE

President - AIAA University of Iowa Chapter — May 2022 - Present

- Organized, coordinated, and prepared material for weekly meetings, events, and competitions
- Allocated tasks to other exec members

Executive Assistant - AIAA University of Iowa Chapter — Aug 2021 - May 2022

- Project lead for a competition rocket, which included design modifications and assembly
- Assisted president with logistics and weekly meeting plans

SKILLS

Python	Verilog	KiCad EDA	Fusion 360	Powershell
Github	SMD & Through-hole Soldering	Revit and AutoCAD	Slack/Teams	Excel/Microsoft Suite

RELEVANT COURSEWORK

Computers in Engineering	Discrete Structures	Introduction to Numerical Methods
Intro to Digital Design	Principles of Electronic Instrumentation	Electrical Circuits
EM Theory	Physics IV (Intro to Modern/Quantum)	Linear Systems I height