

Samuel Witte

222 Wynnbrooke Circle Dr., Fenton, MO, 63026
sam@samwitte.com | (314) 608-1334 | Project Portfolio: www.samwitte.com

EDUCATION

UNIVERSITY OF IOWA - Iowa City, IA

BSE Electrical Engineering

Aug 2020 - Present

Focus in Computer Hardware

Anticipated Graduation Fall 2024

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 micro-controller 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

Custom PCB designed with KiCad; plate and case designed with Fusion 360

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

Intro to Digital Design
EM Theory

Principles of Electronic Instrumentation
Physics IV (Intro to Modern/Quantum)

Electrical Circuits
Linear Systems I height