

Ryan A. Varasteh

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SUMMARY

Mechanical Engineer with hands-on experience in CAD design, prototyping, and electronics integration. Skilled in SolidWorks, MATLAB, and Python with proven ability to deliver innovative engineering solutions through academic and project work. Passionate about applying multidisciplinary skills to advance the field of biomedical engineering.

EDUCATION & CERTIFICATIONS

- **University of Colorado Boulder – B.S. Mechanical Engineering**, May 2023
- **Fundamentals of Engineering Exam (Passed)**, Mar 2023
- **Certified SolidWorks Professional (CSWP)**, Aug 2020
- **Certified SolidWorks Associate (CSWA)**, May 2020

ENGINEERING EXPERIENCE

BASTION Sensor Package – *Electromechanical Engineer* **Aug. 2022 – May 2023**

- Collaborated with Sandia National Labs to design a deployable intruder detection sensor package.
- Developed an object segmentation model to identify people and vehicles in captured images.
- Created Python scripts to execute automated alert protocols on-device.
- Engineered Linux services for real-time data capture and transmission.
- Designed and soldered custom PCBs; assembled electronics subsystems meeting strict requirements.

Drill Powered Vehicle Project – *Manufacturing Engineer* **Jan. 2022 – May 2022**

- Built a drill-powered vehicle capable of climbing steep inclines.
- Designed custom components in SolidWorks and fabricated them using machining techniques (lathe, mill).
- Applied welding to construct a durable steel frame ensuring structural integrity.

Sinton Instruments – *Engineering Intern* **Sep. 2018 – Nov. 2018**

- Analyzed California energy generation data to track renewable vs. nonrenewable trends.
- Prepared and tested engineering materials, ensuring smooth testing procedures.
- Performed quality control tests on solar cells to assess efficiency and performance.

ADDITIONAL EXPERIENCE

Ink & Threads – *Production & Technical Specialist* **Aug. 2017 – Present**

- Oversaw custom product manufacturing and equipment maintenance (embroidery, engraving, printing).
- Built and maintained company IT systems including servers and website.
- Managed client communication, inventory, and deliveries to ensure satisfaction.

Best Buy – *Customer Experience Specialist* **Nov. 2021 – Jan. 2022**

- Assisted customers in sales and support, strengthening communication and teamwork skills.

TECHNICAL SKILLS

Software & Programming: SolidWorks (CSWP), MATLAB, Python, C++, TensorFlow, Eagle, Godot

Engineering Tools: Machining, Welding, Soldering, Laser Cutting, FDM 3D Printing

Systems & Hardware: PCB Design, Arduino, Control Theory, Linux (headless systems)

General: Microsoft Office, Communication, Team Collaboration