

Andrew R. Noble

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EDUCATION

Carnegie Mellon University

M.S., Robotic Systems Development

Pittsburgh, PA

May 2027

California Polytechnic State University

B.S., Mechanical Engineering (Mechatronics Concentration)

GPA: 3.8/4.0

San Luis Obispo, CA

March 2021

SKILLS

Software: Python, Typescript, Linux, ROS2, HTML, CSS, C, Go, Github CI/CD, PostgreSQL

Hardware: Mechanical CAD, soldering, crimping, electrical schematics

PROFESSIONAL EXPERIENCE

SparkLab

Founder, CEO

San Francisco, CA

Jan 2025 - Aug 2025

- Built an innovative platform for educational STEM diagrams, powered by AI
- Interviewed 25 teachers, got 3000 people to try the product, attracted investor interest
- Gained experience in user research, rapid prototyping, and shipping independently

Tortuga Agricultural Technologies

Field Robotics Engineer

Denver, CO

Oct 2021 - May 2023

- Designed ROS2 node in Python that diagnoses end-effector HW, reduces debug time from 30 to 3 mins
- Designed, 3D-printed test stand for ultraviolet light, allowing people to work safely in lab
- Developed ultraviolet fungi treatment, offering customers new chemical-free fungicide service ([video](#))
- Addressed fleet-wide slip-ring comms failure, enabling two record 1000 kg harvest days
- Performed extensive troubleshooting, bring-up, and repair through entire tech stack
- Managed California site for 9 weeks, keeping fleet 80%+ healthy while harvesting 3x/week

Tortuga Agricultural Technologies

Field Robotics Engineer Intern

Santa Maria, CA

May 2020 - Aug 2020

- Conducted software release and feature tests, communicated results to software team

Coffman Engineers

Mechanical Engineering Intern

Anchorage, AK

May 2019 - Aug 2019

- Developed pipeline loading estimates per environmental constraints on AK's northern oil fields
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PROJECTS

Doomscroll Detector

- Computer vision pipeline that issues a warning when one is mindlessly scrolling their phone

Circuit Tutor

- Web application that uses AI to generate electrical circuits for STEM education: circuit-tutor.xyz

Physics Viewer

- Web application that uses AI to tutor college physics, including free body diagrams physicsviewer.com

Fermi Chain

- React/Tailwind application for practicing estimation skills. Attracted 3500 unique site visits