

Zach Smith

zach_asmith@yahoo.com

Education

University of Texas | Austin, TX

Aug. 2019 – May. 2020

Graduate computer science courses

Michigan State University | East Lansing, MI

Aug. 2012 - June 2017

Bachelors degree

Experience

Robotisticist

April 2020 - August 2021

Twisted Fields | San Gregorio, CA

- Technician on the Precision Farming Rover. Powered with solar / supercapacitor, autonomous navigation with RTK GPS, open source hardware and software. My role was mostly as a mechanical technician. This is where I learned robotics development (software, electrical design, prototyping and testing methodologies). Built to be a platform to support low-power passive tools and active autonomous tools to tend to row-based crops
- Built irrigation and data collection system for small farms. Solo alpha-stage project. Owned hardware, software, and product decisions
- Tech: Python, Flask, HTML/CSS, C++, Redis, Linux, Raspberry Pi, microcontrollers, PID control, active and passive circuits, 3D printing, Git

Cybersecurity - Contract

Jan 2019 - May 2019

NASA | Hampton, VA

- Web-scraping and Splunk compliance
- Tech: Python, Bash, Linux, LaTeX

Front End Developer

April 2018 - July 2019

Blockmaster Electronics | Elk Grove, IL

- Migrated mail-order catalog to product website with filter-able database optimized for search. Over 20,000 unique part numbers
- Saw ~20% increase in sales in the first year, and streamlined sales process
- Tech: React, Firebase

Projects

Full Stack Developer - Contract

March 2021 - July 2021

CustomDFS | Remote

- MVP for a sports fantasy simulator. 10 - 50 monthly users
- Tech: Node, React, Firebase, Git

Unmanned Aerial Vehicle Team

Aug 2019 - May 2020

UT Austin | Austin, TX

- Computer vision. Object detection and classification
- Tech: YOLO v3, Python