

CONTACT

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SKILLS

schematic capture

high speed routing

I2C

UART

SPI

board bringup

device verification

enclosure CAD

FDM & SLA 3D printing

production

part procurement

soldering

EagleCAD

Fusion360

Python

Git

Bash

EDDIE SAMUELS

EXPERIENCE

comma.ai

VP of Hardware

2018 – 2019

- Managing a four person hardware team
- Utilizing contract manufacturers to scale production to 10k units
- Schematic capture, part procurement, and high speed PCB routing (MIPI CSI, USB 3.0, PCIe) for next-gen product
→ based on a Snapdragon 845 SOM after evaluating with Nvidia TX2
- Integrating Linux kernel drivers for I2C, SPI, and UART sensors
- Interfacing with Bash and Python flashing, testing, and setup tools

Hardware Engineer

2016 – 2018

- First hardware hire for the company
- Schematic capture, PCB routing, enclosure CAD, packaging design, and production execution for the panda CAN to USB and WiFi interface
→ based on the ARM STM32F and ESP8266
- Enclosure CAD, analog fan controller design, and production execution for the eon driver development kit → based on Snapdragon 821 smartphones
- Designing and stabilizing switched-mode power supplies (SMPS)
- Performing preproduction Device Verification Testing (DVT)
- Developing production phase assembly and testing rigs

Lockheed Martin

Associate Electrical Engineer

2015 – 2016

- Performing PCB bringup, documentation, and system integration for Joint Strike Fighter test equipment
- Developing MATLAB automated test platform to search for spurious RF emission events

Electrical Engineer Intern

Summer 2014

- Part of a three member team chosen by Lockheed Martin and the New York NASA Space Grant Consortium
- Designing electrical platform for a teleoperated underwater rover
- Developing curriculum for STEM outreach program based on rover design

EDUCATION

University of Rochester

B.S. in Electrical & Computer Engineering

2011 – 2015