EDDIE SAMUELS

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

EXPERIENCE

comma.ai

VP of Hardware 2018 – 2019

- Managed a four person hardware team
- Utilized 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
- Integrated Linux kernel drivers for I2C, SPI, and UART sensors
- Interfaced 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
- Designed and stabilized switched-mode power supplies (SMPS)
- Performed preproduction Device Verification Testing (DVT)
- Developed production phase assembly and testing rigs

Lockheed Martin

Associate Electrical Engineer 2015 – 2016

- Performed PCB bringup, documentation, and system integration for Joint Strike Fighter test equipment
- Developed 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
- Designed electrical platform for a teleoperated underwater rover
- Developed curriculum for STEM outreach program based on rover design

EDUCATION

University of Rochester

B.S. in Electrical & Computer Engineering 2011 – 2015