EDDIE SAMUELS

CONTACT

San Diego, CA

(813)-943-6549

eddiemsamuels@gmail.com

eddiesamuels.com

linkedin.com/in/edsammy

github.com/edsammy

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

EDUCATION

University of Rochester

B.S. in Electrical & Computer Engineering

2011 – 2015

EXPERIENCE

Studlabs Consulting

Owner/Engineer August 2019 – Present

- Outlined system architecture for dash camera based on the RK3399 processor
- Designed and prototyped cryptographic point of sale device
- Fabricated LED paint rollers for museum exhibit
- Schematic capture, PCB routing, and firmware development for proteomics motion controller
- Supported system integration of solar charging station for mobile school platform

comma.ai

Principle Hardware Engineer January 2018 – July 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 June 2016 – January 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 June 2015 – June 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