

## 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

## EDUCATION

University of Rochester

*B.S. in Electrical & Computer Engineering*

2011 – 2015

# EDDIE SAMUELS

## EXPERIENCE

### Studlabs Consulting

*Principal Engineer*

Mar 2020 – 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

*VP of Hardware*

Jan 2018 – Jul 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

Jun 2016 – Jan 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*

Jun 2015 – Jun 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