

# Austin Small

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## Education

**Boston University**, Boston, MA  
**B.A. Computer Science**, 2017

## Interests

Embedded Systems  
Cameras and Imaging

Microcontrollers  
Sensors

SoCs  
RF

## Skills

### Software

C, C++, Python  
GNU/Linux  
FreeRTOS

### Hardware

ARM MCUs (M0, M4)  
Espressif SoCs (ESP32)  
Various Linux SoCs  
PCB bringup, testing, debug

### Tools

Cmake and GNU make  
git  
shell scripting  
Multimeter, logic analyzer

## Experience

**Focal Systems Inc.**, Burlingame, CA

**Embedded Systems Engineer** (October 2017 to Present)

- Developed (from idea to prototype to product) a low-power high-resolution IOT camera now being deployed in retail stores nationwide.
- Collaborated with electrical teams on design, fabrication, and testing of PCBs.
- Firmware development for embeded Linux devices, microcontrollers, and SoCs.

**Pumpkin Space Systems Inc.**, San Francisco, CA

**Remote Engineer** (November 2015 to October 2017)

- Created a custom Linux OS (bootloader, kernel, rootfs) for use on satellite flight computers (TI AM335x).
- Set up and managed continuous integration and build automation for company software projects.

**Pumpkin Space Systems Inc.**, San Francisco, CA

**Intern** (Summer 2015)

- Worked on a team developing telemetry software for satellites (written in C and Python).
- System administration and computer networking (router, AP, and bridge configuration).

**Orbital Insight Inc.**, Palo Alto, CA

**Intern** (Summer 2014)

- Data collection and analysis during initial development of company's geanalytics pipeline
- Assessed possible new data sources for the analytics pipeline; reported to VP of business development

**Boston University**, Boston, MA

**Resident Assistant** (September 2015 to May 2017)

- Organized community events and conducted administrative tasks for 40 undergraduate residents
- Participated in an on-call rotation to assist undergraduate residents living on campus