

# Anusha Datar

San Francisco, CA  
[anushadatar.com](http://anushadatar.com)

## WORK EXPERIENCE

### AirGarage — Embedded Software Engineer

MAY 2023 — PRESENT

- First dedicated hardware engineer. Build capacity to cost-effectively automate parking management (integrate **sensors**, **cameras**, and **cellular modems**).
- Lead team meetings and set product direction
- Design, prototype, manufacture, install, and maintain bespoke hardware and software systems (using **KiCad**, **3D printing**, **soldering**, **fabrication**)
- Write firmware and software for device functionality, cloud/database interaction, and observability/fault detection (**Python**, **Linux**, **Django**, **Bash**, **SQL**)
- Create data visualization and alerting tools to monitor and improve deployments
- Scale up supply chain, manufacturing, setup, and installation network from supporting a single hardware testing site to 50+ production devices nationwide

### Meter — Embedded Software Engineer

JAN 2021 — MAY 2023

- Developed vertically-integrated software for network features, the operating system (**buildroot/openwrt**), and the provisioning processes powering **Wi-Fi** access points, network controllers, and network switches in **C**, **Lua**, **Rust**, **Go**, and **Python**
- Worked with manufacturers on selecting, vetting, and customizing hardware
- Handled customer issues and requests on live wireless networks
- Scaled products/processes as team/company size and operational capacity grows

### Google — Software Engineering Intern

SUMMER 2020

- Used **C++** and **Rust** to develop **Bluetooth** stack emulation capability for Fuchsia OS

### Microsoft — Devices Software Engineering Intern

SUMMER 2019

- Built **C#** software interfaces and tools to automate device manufacturing

### Silicon Labs — Applications Engineering Intern

SUMMER 2018

- Solved customer problems in **C** with a focus on **ZigBee 3.0** wireless network security

### MITRE — Embedded Software Intern (Secret Clearance)

SUMMER 2017 — JAN 2018

- Created **Python** and **C++** real-time wireless signal analysis tools and frameworks

## EDUCATION

### Olin College of Engineering — Electrical and Computer Engineering

SEPT 2017 — JUNE 2021

**Relevant Coursework:** Software Systems, DSA, Computer Networks, Computer Architecture, Circuits/Power Electronics, Data Science, ML, Design

**Teaching Assistantships:** Data Structures and Algorithms, Machine Learning, Analog and Digital Communications, Analog Electronics, and Neurotechnology.

**Activities:** Human Augmentation Lab (Researcher, Signal Processing and Brain-Computer Interfaces), Student Government (President), IT technician

## SKILLS

### Programming

#### Languages:

Strongest: **C**,  
**Python**, **Java**,  
**MATLAB**, **C++**  
Have Professional  
Experience In:  
**Lua**, **Rust**, **Go**, **C#**,  
**SQL**

### Technical

#### Specialties:

Embedded  
Development,  
**Linux Kernel**,  
Wireless  
Networking  
(**Bluetooth**/  
**ZigBee**/**Wi-Fi**)

**Other:** Electronics  
Design/Fabrication,  
Soldering, **HAM**  
Radio (Extra  
Licensed), Basic  
**CAD**, Laptop  
Diagnostics and  
Repair, Rapid  
Prototyping

## PROJECTS

- Brain Computer Interfacing Research with **MATLAB** and **Python**
- Air quality monitoring and mitigation for advocacy groups in East Boston - **electronics**, **fabrication**, **C**, and **Python**
- Mechatronic CNC PCB mill - **electronics**, **fabrication**, **C**, **Python**
- Wrote unix shell and text editor - **C**, **Linux kernel**