

# PARMVIR SINGH

---

• singhparmvir13@gmail.com • [www.linkedin.com/in/parmvirs](http://www.linkedin.com/in/parmvirs) • <https://parmvir23.github.io/MyPortfolio/>

## OBJECTIVE:

---

Actively seeking an internship/job in the areas of Hardware, Firmware, or Software Engineering.

## EDUCATION:

---

**Bachelor of Science, Computer Engineering**

*Graduated: May 2020*

California State University, Sacramento, CA

*GPA: 3.5*

## WORK EXPERIENCE:

---

**Embedded Systems Engineer**

**NetworkSound**

*August 2020 - Present*

- Assisted in designing and implementing software of embedded systems for the professional and the consumer audio market.
- Developing a web-based application for audio products for user-friendly operations.
- Software experience in C/C++ on Linux, Python, html, CSS, and embedded systems.
- Knowledge in handling application development life.

**Prime Now Associate**

**Amazon**

*December 2017 – February 2020*

- Worked in a super-fast paced environment to meet daily goals.
- Provided services efficiently with high level of accuracy and problem solved minor technical difficulties.

## SKILLS-LANGUAGES, TOOLS, PLATFORMS:

---

C/C++, Verilog, Python, JavaScript, Java, VHDL, Github, x86 Assembly, ARM Assembly, HTML/CSS, MYSQL, Arduino IDE, Multisim, OrCAD PSpice, Cadence Virtuoso, DOS, Windows (XP, Vista, 8.1, 10), MS-DOS, UNIX, Linux (Ubuntu, Debian), VMWare, Punjabi, Hindi

## RELATED PROJECTS:

---

### Senior Design Project

- *Semi-Autonomous Hydroponic Greenhouse:* Currently involved in designing and building a Semi-Autonomous Hydroponic Greenhouse with 4 other team members. The team consists of 1 Electrical Engineer (EE) and 4 Computer Engineering (CpE) students. Directly assisting with designing the Control System for all sensors and implementing the desired measurables in code for these sensors.

### Java/C Projects

- *Multi-threading:* Experimenting with the performance impact of multithreading using real time measurements using the POSIX thread library on a UNIX system. I oversaw writing a program that sorts an array of random integers first sequentially and then using multi-threading.
- *User-level Threading:* Implementing context switching using *sisetjmp* and *silongjmp*. Also, implementing two preemptive scheduling algorithms: Round-robin and Lottery scheduling and designing data structures for thread entities.

### HTML/CSS Project

- *My Portfolio:* Built a portfolio website for myself using HTML and CSS. I built it using Brackets text editor and published it on Github pages. The portfolio is responsive on all browsers and devices.

### Computer Hardware Designs

- *PCI Bus Arbiter:* In Verilog, designed and simulated a PCI Bus Arbiter that performed bus arbitration among multiple master devices on a PCI Bus. The bus arbiter utilized the Round-Robin Priority Scheme to designate the PCI Bus to the appropriate master device.

## AWARDS/CLUBS:

---

Deans Honor List

**MEP**, Member

**SWE**, Member

**SSA**, President/Member

*Spring 2017 – Spring 2019*

*Fall 2017 – Spring 2020*

*Fall 2017 – Spring 2020*

*Fall 2017 – Spring 2020*