

**EDUCATION**

<b>University of California, Riverside</b>	<b>3.79 GPA</b>	<b>Expected June 2023</b>
<b>Masters of Science, Computer Science</b>		
Completed Courses	Parallel Systems; Real-time Embedded Systems; Computer Security;	
Expected Courses	Advanced Operating Systems; Advanced Computer Architecture; Software Security; Compiler Construction;	
<b>University of California, Riverside</b>	<b>4.00 GPA, Summa Cum Laude</b>	<b>Received Spring 2022</b>
<b>Bachelors of Science, Computer Science</b>		
Notable Courses	Intermediate Embedded and Real-Time Systems; Operating Systems; Computer Architecture; Intermediate Data Structures and Algorithms; Intro to VLSI;	
<b>El Camino College</b>	<b>3.56 GPA</b>	<b>Fall 2016 - Spring 2020</b>
<b>Associates of Science, Mathematics</b>		
Notable Courses	Differential Equations with Linear Algebra; Advanced C++; Python; Java;	

**PROJECTS & EXPERIENCE**

<b>USB Wifi Switch</b>	<b>Hardware:</b> <a href="https://bit.ly/3RxdCCh">https://bit.ly/3RxdCCh</a>	<b>October 2022 - Present</b>
<ul style="list-style-type: none"> <li>• Wifi enabled 2-port USB switch that's directly compatible with popular open source monitoring software</li> <li>• Ports individually controllable with independent voltage and current monitoring</li> <li>• Simple to assemble, low cost, with modular design</li> </ul>		
<b>Student Systems Administrator</b>		<b>Dec 2022 - Present</b>
<ul style="list-style-type: none"> <li>• Handled user support tickets relating to software and cluster usage</li> <li>• Provided cluster-wide software installation</li> <li>• Assisted with deployment of new compute and GPU nodes</li> </ul>		
<b>ESPHub</b>	<b>Software:</b> <a href="https://bit.ly/3fwmQzI">https://bit.ly/3fwmQzI</a> <b>Hardware:</b> <a href="https://bit.ly/3rhdmuZ">https://bit.ly/3rhdmuZ</a>	<b>July 2021 - December 2021</b>
<ul style="list-style-type: none"> <li>• Uses an ESP8266 WiFi enabled microcontroller to record temperature, humidity, and light values</li> <li>• Uses MQTT to report data back to central server</li> <li>• Designed &amp; manufactured low-cost PCB containing relevant sensors in a small form factor</li> </ul>		
<b>ACM Chapter President</b>		<b>August 2017 - August 2020</b>
<ul style="list-style-type: none"> <li>• Organized meetings, guest lectures, code competitions, and code camps</li> </ul>		

**RESEARCH**

<b>Undergraduate Research</b>	<a href="https://bit.ly/3ftyVFU">https://bit.ly/3ftyVFU</a>	<b>July - September 2022</b>
Dr. Philip Brisk		
<ul style="list-style-type: none"> <li>• Converted CPU implementation of Homomorphic Encryption library to run on datacenter FPGAs using HLS</li> <li>• Parallelized core calculations of gate bootstrapping</li> <li>• Identified bottleneck in calculations with continued efforts to increase performance</li> </ul>		
<b>Undergraduate Research</b>	<a href="https://bit.ly/3SQdopn">https://bit.ly/3SQdopn</a>	<b>January 2021 - June 2022</b>
Dr. Daniel Wong		
<ul style="list-style-type: none"> <li>• Study the power usage of GPU accelerated embedded systems under various workloads</li> <li>• Worked with Jetson AGX Xavier and Jetson Nano</li> <li>• Discovered 12% energy savings in deep learning inference using frequency scaling</li> </ul>		

## **TUNE Summer Research Program**

**July - September 2020**

Dr. Daniel Wong

- 10-week research program
- Developed Continuous Integration workflow with support for Nvidia GPUs

## **LANGUAGES AND TECHNOLOGIES**

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**Languages:** C/C++; Python; Java; Verilog; MySQL; Bash; HTML/CSS/Javascript;

**Tools/Frameworks:** Linux; Git/GitHub; Vitis HLS; Docker/Swarm; Office Suite;