Samuel Andrew Bondoc

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Campus
TBD (relocatable)

Home
31421 Seminole St.
Temecula, CA 92591

EDUCATION

University of California, Irvine — Entrance: *August 2018*
Bachelor of Science in Computer Engineering — Graduation: *June 2021*

SKILLS

Coding – **C** | **C++** | **Python** | **SQL** | **JavaScript** | **Verilog**
HTML | **CSS** | **Java** | **8051** | **MIPS** | **RISC-V**

Tools – **GitHub** | **Xilinx Vivado** | **Google Apps Script**
MySQL | **SolidWorks** | **GDB** | **Valgrind**

Interfaces – **Git** | **Windows** | **Linux** | **Raspberry Pi**
Arduino | **Node.js** | **Koa.js**

Design – **Paint.NET** | **Canva** | **Adobe Premiere Pro**
Adobe After Effects

EXPERIENCE

Engineering Course Tutor — *August 2020 – Present*

UCI Office of Access and Inclusion

- Taught programming paradigms to 4 students. **[C | 8051 | MIPS | RISC-V]**
- Developed memory management visualizations for 1 student. **[Paint.NET | C]**
- Instructed 1 student on circuit analysis techniques.

Media Coordinator — *November 2019 – Present*

IEEE Student Branch at UC Irvine

- Established online presence for the club, increasing engagement by over 40%.
- Designed graphics for, composed, and edited weekly newsletter. **[Paint.NET]**
- Created and published visual content for online advertising on 4 platforms. **[Premiere Pro | After Effects]**
- Defined standardized protocols for executive board's new file system with API-style documentation.
- Coordinated with 5 other board members to manage correspondence with over 30 industry tour participants.
- Supervised 2 embedded systems workshops with 25 students each. **[Arduino]**

Cybersecurity Workshop Tech Mentor — *May 2021*

UCI Office of Access and Inclusion

- Facilitated virtual 3-weekend seminar with over 60 participants from colleges across the U.S.
- Diagnosed DHCP setup anomalies for query-filtering DNS server. **[Raspberyy Pi | Linux]**
- Guided beginner Python users through coding a Caesar cypher. **[Python]**

Summer Program Assistant — *April 2019 – September 2019*

UCI Office of Access and Inclusion

- Mentored over 80 students for 8 weeks in software/hardware integration. **[Python | SolidWorks]**
- Formulated JavaScript curriculum for advanced participants. **[GitHub | JavaScript | Premiere Pro]**

PROJECTS

IoT Irrigation System

- Designed irrigation prototype with DHT-11 sensor, HW-416 PIR sensor, and I2R LCD. **[Raspberry Pi | Python]**
- Augmented distribution efficiency protocol with CIMIS database retrieval using FTP.

FPGA-Compatible MIPS Processor

- Incrementally implemented core, pipelining, and hazard protection functionality. **[Verilog]**
- Tested and analyzed power consumption on simulated Kintex-7 FPGA. **[Xilinx Vivado]**