

Tony T. Johnston

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EDUCATION:

University of California - Riverside, California
Bachelor of Science in Electrical Engineering

June 2022

TECHNICAL/NON-TECHNICAL SKILLS:

- Communicative
- FOD Certified, ESD Trained
- Soldering
- Spot Welding
- Knowledge of C++
- Knowledge of Arduino

RESEARCH:

Solar Thermal Closet – Riverside, CA

December 2018 – PRESENT

Electrical Lead

- Perform weekly testing of the system for data.
- Monitor the Arduinos, fans, temperature sensors, and humidity sensors.

PROJECTS:

IEEE Solar Car - Riverside, CA

September 2018 –PRESENT

Team Member

- Spot welded numerous 18650 lithium batteries with a nominal of 96V and maximum of 96V in a combination of series and parallel to make the battery pack.
- Tested the batteries to meet specifications of the competition.

IEEE Micromouse - Riverside, CA

September 2018 – PRESENT

Team Member

- Designed a robot to self-solve a 16 by 16 cell maze.
- Researched hardware parts that would work best which consist of motor drivers, IR LEDs, Teensy, etc.
- Utilizing the Arduino language to code the Teensy to be used as a microcontroller.

EXPERIENCE:

Avail Engineering - Colton, CA

August 2018 – September 2018

Electrician Apprentice

- Gained knowledge of construction materials involved in the construction for commercial buildings.
- Operated machinery such as power tools and scissor lifts.
- Remodeled the building by setting up valance lighting, running wire, retrieving materials etc.

Volcom Wireless Inc. - Carlsbad, CA

June 2018 – July 2018

Intern

- Assembled radio that will be used to transmit different signal through only on antenna for aircrafts.
- Tested products using a temperature chamber and a vibration test system.
- Analyzed wave frequencies using a spectrum analyzer, oscilloscope, and network analyzer.

ORGANIZATIONS:

Institute of Electrical and Electronics Engineers (IEEE) – Riverside, CA

September 2018 – PRESENT

International Member

- Committed to provide technical, social, and professional development.

Society of Women Engineers (SWE) – Riverside, CA

September 2018 – PRESENT

Member

- Committee member for Bourns Engineering Day.
- Volunteer for outreach programs

Society Hispanic Professional Engineer (SHPE) – Riverside, CA

September 2018 – PRESENT

Social Committee Director

- Organize social events for the organization.
- Manage the committee by is assigning tasks to each member.