



Professional Experience

Controls Engineer The Walt Disney Company, Lake Buena Vista, FL Jan 2018 - Present

- Design electrical systems, enclosures, and software for ride control applications
- Develop hazard analysis, acceptance test procedures, and technical documentation
- Support installation of ride control systems and equipment, perform acceptance testing

Quality Engineering Intern The Walt Disney Company, Lake Buena Vista, FL May 2017 - Jan 2018

- Created, updated, and maintained attraction documentation pertaining to safety, maintenance, and quality assurance programs
- Investigated safety, regulatory compliance, and maintenance requirements regarding creation/modification of engineering designs
- Audited attraction documentation and adherence to job plans performed in the field
- Participated in training and qualifying Engineering Services team on maintenance job plans

Hardware/Software Intern Automated Packaging Systems, Streetsboro, OH May 2016 - Aug 2016

New product development team, industrial automation

- Designed two-layer PCBs, soldered components (SMD), and fabricated enclosures using power tools for test and prototype devices
- Developed firmware and software for several ARM processors with and without a Real-time Operating System (RTOS)
- Led Android OS customization for human-machine interface (HMI) tablets
- Led development of Python scripts for device-level and system-level calibration and testing using TCP and Modbus
- Documented testing procedures and wrote help output for debugging shells

Project Management Intern The Walt Disney Company, Lake Buena Vista, FL Aug 2015 - Dec 2015

Construction field representative at Animal Kingdom theme park, project management

- Provided field supervision for facility improvement projects ranging from commercial buildings to themed attractions
- Maintained site safety by ensuring all internal and external regulatory safety procedures were followed
- Participated in design reviews and project meetings keeping track of scope and updating the schedule with on-site activity
- Verified work was completed to specifications, collaborated with creative partners to uphold show quality standards in guest areas

Technical Director Residence Hall Program Board, University of Akron. Aug 2016 - May 2017

Live entertainment technology

- Managed a diverse technical crew of 20 volunteers, created schedules, and wrote and implemented training programs
- Developed a nationally recognized iOS and Android application for promoting campus events and web backend
- Provided professional production services by designing stage plots, stage lighting, mixing audio, rigging, and other A/V services
- Calmly identified and resolved technical problems that arose during live events, worked with professional entertainers

Technical Skills

<i>Engineering</i>	■ Soldering	■ Lab equipment	■ Print Reading	■ PCB Layout	■ Schematics
<i>Software Apps</i>	■ MatLab	■ LTSpice	■ EAGLE	■ Visual Studio	■ Xcode ■ MS Excel, PowerPoint, Word
<i>Platforms</i>	■ Windows, MacOS, Linux		■ iOS and Android	■ Arduino and Raspberry Pi	■ MSP430, Freescale Vybrid
<i>Programming</i>	■ C/C++	■ Objective-C	■ C# (.NET)	■ Java	■ Python ■ HTML/CSS ■ PHP ■ MySQL
<i>Entertainment</i>	■ Lighting (DMX, E1.31 sACN)		■ Audio Principles	■ Signal Flow and Networking	
<i>Communications</i>	■ TCP/IP	■ Bluetooth	■ Serial	■ Modbus	

Education

Bachelor of Science in Electrical Engineering (2017)

Bachelor of Science in Computer Engineering (2017)

The University of Akron, Akron, OH
Honors: Summa Cum Laude (3.90/4.00)

Engineering Intern (EI/EIT) Endorsement #1100021130 - Florida Board of Professional Engineers (FBPE)

Projects: Self-driving vehicle computer vision, iPhone controlled Made with Magic ears, iPhone/Android app development, Tyler Christmas Lights - Musical Animated Light Display

Awards: The Outstanding Student Engineer in Computer Engineering 2017 (University of Akron)
Director's Pillar of Excellence Award 2017 (University of Akron)
Best Electrical Engineer - Disney's Ultimate Engineering Exploration 2015 (DUEE)

Memberships: IEEE