TIA HUNT

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering — **May 2021**

University of Arizona – Honors College, Tucson, AZ — GPA: 3.7/4.0

- **Relevant Coursework:** C/C++ Programming & Data Structures, Digital Logic, Electronic Circuits, Object-Oriented Design, Computer Architecture, Linear Algebra, Discrete Mathematics, Microprocessor Organization, Communications, Numerical Analysis, Neural Networks, Digital Signal Processing, Information and Network Security, Digital Control Systems.
- **Study Abroad:** Southeast Asia • Global Experiential Learning: Culture, History, and People — **Winter 2018 – 2019**
- **Study Abroad:** Paris & Berlin • The Honors Trip: Focus on Digital Humanities — **Summer 2018**

SKILLS

- **Languages:** C, C++, Python, Java, UML, MATLAB, C#, Verilog, Ada, Wolfram Language.
- **Tools:** Git, Eclipse, Visual Studio, Azure DevOps, Microsoft Office, Adobe Creative Suite, Drupal.
- **Operating Systems:** Windows XP, Linux, Mac OS X.

PROJECTS

Virtual Reality Optics Lab — **August 2020 – Present**

University of Arizona – College of Engineering Interdisciplinary Capstone, Tucson, AZ

- Create a virtual optics lab environment where users can model and manipulate optical systems via a GUI and observe ray data
- Develop C# code in Unity to render optical elements and ray trajectory in real-time and in communication with Mathematica
- Communicate with sponsor to develop system requirements and assess design's ability to meet these through test verification

WORK EXPERIENCE

Software Engineer Intern — **June 2020 – Present**

Raytheon Missiles & Defense, Tucson, AZ

- Rehost legacy software onto embedded hardware via Ada to C++ conversion, integration, and Endianness troubleshooting
- Verify system integrity through formal qualification testing of custom uploaded images via hardware-in-the-loop simulation
- Use DevOps, Scrum, and Agile methodologies as well as standard source control practices to increase agility of development

Undergraduate Research Assistant — **September 2019 – Present**

University of Arizona – Model Based Design Laboratory, Tucson, AZ

- Support development of Computer-Assisted Surgical Trainer to assist practicing surgeons in performing laparoscopic surgery
- Design and implement clinical research study with goal of 50 human subjects to analyze validity and efficacy of the CAST

Keep Engaging Youth in Science (KEYS) Intern — **June 2017 – July 2017**

University of Arizona – BIO5 Institute, Tucson, AZ

- Programmed an Arduino in C and extracted blood propagation waves throughout the body via an optical pulse sensor
- Developed system to support a low-cost cuff-less blood pressure monitor and presented findings at formal review conference

LEADERSHIP EXPERIENCE

President, Vice President & Media Coordinator — **September 2017 – May 2020**

University of Arizona – Filipino American Student Association, Tucson, AZ

- Oversee the executive board, delegate responsibilities, work with third parties, and maintain cohesion within the organization
- Ensure that crucial events are successful through funding, managing up to $6k in finances, and coordination among officers

HONORS & AWARDS

Emerging Leader Award — **May 2019**

University of Arizona – Asian Pacific American Student Affairs, Tucson, AZ

- Recognizes one individual out of 12+ student organizations whose contributions have added to the advancement of their affiliated organization mission and to the Asian Pacific Islander and Desi American community at University of Arizona