**JAMISON HOLT**

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**EDUCATION**

**The University of Texas at Austin** Bachelor of Science, Biomedical Engineering May 2019

Focus: Computational Biomedical Engineering

Certificates: Elements of Computing and Scientific Computing

GPA: 3.6

**RELEVANT EXPERIENCE**

**Volunteer Software Engineer** - *Dr. Xie, The University of Texas at Austin* August 2016 - Present

* Researched approaches to noise cancelation to improve neural signal readings in existing open source code
* Modularized a previous researcher’s code to reduce redundancy, resulting in increased readability

**Programming Team Member** – *IEEE Robotics and Automation Society* March 2016 - Present

* Calculated necessary tensions among 4 diagonal ropes to navigate between coordinates on any size wall
* Adjusted robot specifications to avoid unreasonable tensions, reducing the possibility of catastrophic failure

**PROJECTS**

**Red-Black Tree** - *Python*

* Maintained balance of a binary tree to allow insertion, deletion, and data access in log(n) time
* Parsed through unread emails between multiple accounts to set up a synchronized contact list

**Pulse Sensor** - *Labview*

* Measured green light absorption to provide accurate pulse readings from any part of the body
* Collected data such as heart rate and heart acceleration to allow quicker health analyses
* Utilized a lightweight design to allow both portability and cost-effectiveness in undeveloped countries

**Automated Browser Navigation** - *Python*

* Implemented the Selenium package to navigate multiple websites and perform a diverse array of actions
* Automated time-intensive processes for resident assistants to provide relief during high stress scenarios

**“2-Chainz” Catapulting Robot** - *Labview*

* Calculated the ideal catapult angle needed to launch a ball through a narrow goal
* Designed a chassis to allow efficient use of metal resulting in reduced weight and increased speed

**OTHER EXPERIENCE**

**Biomedical Engineering Mentor** - *The University of Texas at Austin* September 2016 - Present

* Guided students through academic and career decisions to prevent early confusion
* Developed relationships between biomedical engineers to increase non-academic interaction

**Biomedical Engineering Tutor** - *The University of Texas at Austin* August 2016 - Present

* One of three individuals entrusted with mentoring over 400 undergraduate engineers
* Tailored tutoring style to each individual’s strengths to develop a better learning environment

**Resident Assistant** - *The University of Texas at Austin* August 2015 - Present

* Cooperated with a team of students with diverse skills to plan large-scale programs
* Supervised 48 residents to promote a safe and supportive community

**Volunteer Research** - *Dr. Kim, The University of Texas at Austin* September 2015 - December 2015

* Cultured epithelial cells to create *in vitro* models of the gut, resulting in greater insight of GI tract diseases
* Clarified ambiguities in existing lab procedures to optimize training of incoming researchers

**Lead Server Trainer** - *Main Event* October 2013 - October 2014

* Mentored less experienced trainers to improve overall quality of new server onboarding
* Organized daily meetings to pinpoint weaknesses and reinvigorate bartenders, servers, and hosts

**TECHNICAL SKILLS**

**Programming Languages**

* Proficient: Python
* Familiar: Java, HTML, CSS, Javascript, C, C++, Bash, LaTeX, MatLAB, Labview

**Software**

* Solidworks CAD with 3D printing