AROUNEY (ALLIE) SITHTAPHONE

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EDUCATION

University of Rhode Island **Kingston, RI**

Bachelor of Science in **Biomedical Engineering,** GPA 3.3 *Expected May 2027*

Coursework: Foundations of Engineering I & II, Digital Circuit Design, Computer Programming, Cyber Security Technology
Societies & Roles: Resident Academic Mentor (RAM), Institute of Electrical and Electronic Engineers (IEEE), Society of Hispanic Professional Engineers (SHPE), IEEE Engineering in Medicine and Biology Society (EMBS)

SKILLS

Technical Skills: C++ | HTML/CSS | Python | Excel | Arduino | Fusion 360 | SOLIDWORKS

PROJECTS & LAB EXPERIENCE

Undergraduate Research Lab Assistant **Kingston, RI**
University of Rhode Island Wearable Biosensing Lab *March 2024 - Present*
- Prototype vital-sign-collecting wearable armband using Fusion 360, silicone molding, textiles, & 3-D printing
- Develop comprehensive testing protocols to collect electrocardiogram (ECG) and electrodermal activity (EDA) signals
- Present research findings to peers and faculty, demonstrating technical and communication skills

Flu Vaccine and Health Literacy Application **Woonsocket, RI**
CVS Health | Woonsocket Area Career and Technical Center *October 2022 - January 2023*
- Designed a user-friendly application to promote health literacy and flu vaccination, ensuring accessibility
- Created engaging character and app designs to enhance user experience and interaction within game
- Developed a dynamic website using HTML/CSS and employed strategic marketing techniques to expand the application's reach

Zero Robotics Summer Coding Technician **Woonsocket, RI**
Community Care Alliance | The Harbour Youth Center *July 2019 - August 2019*
- Assisted in SPHERES (Synchronized Position, Hold, Engage, Reorient, Experimental Satellite) programming and research through collaboration with Massachusetts Institute of Technology (MIT) and Department of Defense (DOD)
- Optimized satellite maneuverability to navigate through space debris dense environments, enhancing collision detection and interception accuracy using C++
- Competed in National Aeronautics and Space Administration (NASA) Zero Robotics program as part of a team, achieving 2nd place in Rhode Island

WORK EXPERIENCE

High School Coordinator **Kingston, RI**
University of Rhode Island SMILE Program *March 2024 - September 2024*
- Develop and implement engaging weekly STEM activities for an after-school club, fostering a hands-on learning environment for high school students from marginalized communities
- Collaborate with educators and community partners to ensure activities are inclusive, culturally relevant, and aligned with educational standards

Contract Web Developer **Remote**
Each Day Communications *September 2022 - May 2024*
- Spearheaded the creation and maintenance of websites using versatile Content Management Systems (CMS) including Squarespace and WordPress, enhancing brand visibility and online engagement
- Collaborated with over 5 clients and stakeholders to gather and refine project specifications, ensuring alignment with precise technical requirements
- Ensured cross-browser and cross-device integration of features, significantly improving web accessibility and user satisfaction

Summer Program Instructor **Woonsocket, RI**
Community Care Alliance | The Harbour Youth Center *July 2020 - August 2021*
- Curated a targeted 5-week engineering and public health curriculum for 12 local youth (ages 14-18)
- Secured a $3,000 grant from the National Center for Women in Information Technology (NCWIT) to establish a virtual STEM program for 10 local teenage girls (ages 14-19)