BRANDON TASHI

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Enthusiastic, well-organized **Aerospace Engineering** student seeking an internship position in **General Engineering.** Expert in HTML, CSS, Bootstrap, Python, Flask, and JavaScript. Intermediate in Unity, C#, and MATLAB. Highly experienced in Fusion 360, AutoCAD, CATIA, PTC Creo, Visual Studio, Atom, and Windows/Linux command-line interfaces. Skilled in soldering, 3-D printing, and workshop tools. Proficient with Arduino and Raspberry Pi. Comfortable with Microsoft Office and Google Suite. Proven stress tolerance and teamwork capability from NASA, Department of Transportation, and cube satellite structure lead experience.

EDUCATION

Embry-Riddle Aeronautical University
Bachelor of Science in Aerospace Engineering Expected graduation: June 2024
GPA: 4.0/4.0
Related Coursework:

Multivariable Calculus	Physics I For Engineers	Graphical Communications
Intro to Programming for Engineers	Intro to Computing in Aviation	Calculus II

WORK EXPERIENCE

NASA Goddard Space Flight Center (IV&V)
Yearlong Engineering Intern – Binary Analysis 23 hours/week, Sep 2021 – Present

- Responsible for programming a Python data pipeline for an Artemis I SLS simulation by using Atom.
- Designed/analyzed SLS and launchpad 39B simulation parts using Blender, Fusion 360, and Maya.
- Helped research and improve project management systems through Microsoft Teams and SharePoint.
- Refactored C# code in Artemis I simulations via Microsoft Visual Studio and Unity.
- Experimented and interacted with Artemis simulations using Oracle VM VirtualBox.

Texas Department of Transportation
Summer Engineering Tech 40 hours/week**,** Jun 2021 – Aug 2021

- Performed verification and validation of contractor-based scope templates using Microsoft Excel.
- Assisted in analysis and gathering of various Level of Effort sources through extensive research.
- Supported troubleshooting efforts in detecting missing information and grammar issues via Microsoft Word.
- Aided in organizing file systems for different contractor projects ranging into millions of dollars in funding.

PROJECTS

Robotic Vacuum Cleaner Oct 2020 – Jan 2021

- Fabricated a 3-D printed chassis that was designed in Fusion 360 and PTC Creo.
- Constructed a modular chassis design by using mechanical principles like joints, clearance, and tolerance.
- Drafted assembly components onto drawing sheets with detailed and appropriate labeling.
- Programmed using an Arduino Nano and utilizes soldered ultrasonic sensors to navigate terrain.

Artificial Intelligence Voice Assistant Jul 2020 – Jan 2021

- Built using Python libraries TensorFlow, threading, and Natural Language Toolkit in a virtual environment.
- Presents a modern Bootstrap web interface utilizing HTML, CSS, JavaScript, and Flask.
- Applies APIs such as Google Text-to-Speech, IBM Speech-to-Text, Wikipedia, and geolocation weather.
- Employs an adaptable, efficient JSON neural network training data frame that can suit various applications.

EXTRACURRICULAR ACTIVITIES

Embry-Riddle Orbital Research Association Aug 2020 – Sep 2021
Structures Sub-Team Lead for Project Hermes

- Researched and compiled information on possible cube satellite experiments and designs.
- Presented material in team meetings that elaborated on current and future project concepts.
- Established a cooperative, amiable, and motivational team atmosphere.