**Jack Jones**

[**jackojones.com**](http://jackojones.com)**| The Colony, TX | (330) 464-0545 | jack8jones@protonmail.com|** [**linkedin.com/jack-jones**](https://www.linkedin.com/in/jack-jones-501110182/)**|** [**github.com/Cicerokx7**](https://github.com/Cicerokx7)

**EDUCATION The University of Texas at Dallas,** Richardson, Texas Bachelor’s in Computer Science

Graduated December 2023 GPA: 3.727 Cum Laude

**Relevant Courses:** Introduction to Machine Learning, Introduction to Machine Learning, Linear Algebra, Calculus 1&2

**Microsoft Certification: Azure AI Fundamentals**

**LeetCode Points: 1131**

**Class Projects**

* **Raytheon Drone Competition**: Collaborated with Raytheon and fellow students to develop a cutting-edge drone and ground robot. The drone would locate other ground robots and spray them with liquid. Specialized in developing the computer vision system of the drone utilizing linear algebra, Python, and Linux. The computer vision system would find enemy ground robots and get the global coordinates and velocity of the robot.
* **Pipe Anomaly Detection:** Worked with a team on data generation and developed computer vision AI system that would recognize damage on underwater pipes using a Convolutional Neural Network (CNN) deep learning algorithms. 100% success rate, based on around 132 photos.
* **Slider Stack Game:** Worked with a team to develop a Unity-based game where users assemble virtual sandwiches by sliding a bun and stacking ingredients to match a menu.
* **Flight Path Algorithm**: Independently developed a program utilizing an iterative backtracking algorithm to identify optimal flight routes between airports.
* **Kanban Board:** Collaborated with a group to develop a prototype Kanban board application.

**INTERNSHIP Space x View**, Japan (Remote) September 2022 – October 2022

**EXPERIENCE** Software Engineer

* Used Agile methodology to develop the company’s virtual reality platform using the Unity Library.
* Created 2 city blocks, added a new avatar.
* Added new tools, features, and objects to allow the user to better interact with the objects in the virtual platform.

**ROBOT BUILDS** [YouTube presentation on the robots](https://www.youtube.com/watch?v=MOAKe1YCaEE&t=4s)

Conceived**,** designed, built, and programmed the software design, digital circuits, and mechanisms for autonomous robots.

* **Coffee Robot (In Progress):** Simulates manufacturing coffee by making chocolate milk and placing a cap on the cup. This will eventually create nearly any coffee through an app.
* **Sidewalk Robotics**: Followed sidewalks using computer vision. Successfully tested a drive of at least 2 miles while carrying a heavy payload of 6 cans and ice.
* **6Can Robotics:** Competed in the DPRG 6Can fall 2018 and summer 2023 robotics competition, earned 3rd place. Used computer vision systems.

**TECHNICAL PROFICIENCY C++, Python, Java, Arduino, C#, Agile, Machine Learning, Computer Vision, Algorithms and Data Structures, Visual Studio, Unity, Linux, MIPS, Racket, Prolog**