

Aazim Hamza Anver

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EDUCATION

New York University - Abu Dhabi, UAE / Paris, France / New York, USA	2022 - 2026
Major - Computer Science, Minor - Engineering , GPA 3.74/4.00	
Elizabeth Moir School - Colombo, Sri Lanka	2015 - 2022
Edexcel International High Achievers Award (3A*, 1A), Edexcel World Prize (O/L CS), SAT 1550	

TECHNICAL SKILLS

Software Development

- Proficient in Python and C, C++, with experience in Lua, JS
- Experienced in use of Docker, remote platforms, Linux (shell), git, among others
- Developed with FreeRTOS, PlatformIO, STM32CubeIDE, ESP-IDF for embedded software development

Hardware Design & Manufacture

- Proficient with Fusion360, OnShape & SimScale for design and simulation of hardware
- Experience collaborating with manufacturers & suppliers for production and assembly
- Experience in operation, maintenance and troubleshooting of 3D printers

Electronics Design

- Proficient with EasyEDA, KiCAD for PCB design
- Experience designing, manufacturing and assembling PCBs and electronic systems

PROJECTS / COMPETITIONS

SpacePort America Cup	July 2023
<ul style="list-style-type: none">- Dr. Gil Moore Award for Innovation, runner-up out of 158 teams- Design and manufacture of a high power hobbyist rocket, HaloShip- Developed RoCat v1.1 flight computer, and early iterations of firmware- Design and manufacture of a reusable and redundant hold down and release mechanism (HDRM) for stage separation, tested on HALOSHIP	
NASA JPL University Crowdsourcing Initiative	Spring / Summer 2023
<ul style="list-style-type: none">- Assessing the National Aeronautics and Space Agency's current hold down and release mechanisms- Evaluating new designs for HDRMs with electric and mechanical redundancy for satellite applications- Developing the manufacturing pipeline for potential designs	
FIRST Global Robotics Olympiad	June 2019
<ul style="list-style-type: none">- Represented Sri Lanka in FIRST Global Robotics Olympiad in 2017, 2018 and 2019- Collaboratively designed, prototyped, programmed a robot to complete the given challenge- Awarded Judges Technical Award, and 3rd Place out of 191 teams	

EXPERIENCE

Intern - Sri Lanka Telecom Digital Lab	Summer 2024
<ul style="list-style-type: none">- Developed synthetic image generation using Blender for training ML models on license plates- Wrote firmware for interfacing with SIMCOM A76XX with ESP-IDF- Wrote library for configuration web portal, persistent settings, OTA updates over HTTP with Arduino framework	
Team Member - nyuad.space	Spring / Summer 2023
<ul style="list-style-type: none">- Working on both the SpacePort America Cup and development of an HDRM for NASA JPL- Part of the UAE SPACE Initiative, helping to advance the aerospace capabilities of the region	
Equipment Specialist - SpaceBar NYUAD	Spring 2023
<ul style="list-style-type: none">- Operate and maintain telescopes and astrophotography equipment as part of operations- Collaborated with various departments for smooth operation of astronomical observation events	
Self Run Business - 3D Printing	2021 - 2022
<ul style="list-style-type: none">- Designed 3D models and manufactured them for various clients- Designed part of electrocardiogram signal generators for use in government hospital personnel training	