

Abhi Naglapura

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Career Objective

I am currently in my second year of a Bachelor of Engineering, with a strong foundation in robotics, control systems, and embedded programming. I am seeking a graduate role in the aerospace or mechatronics field, where I can contribute to the development of advanced systems and cutting-edge technologies. I bring hands-on experience with systems integration, CAD design, and automation, along with a deep interest in sustainable space systems and precision engineering.

Technical Skills

Languages: C, C++, Java, Python, G-Code, HTML, MATLAB

CAD: Solidworks, Fusion 360, AutoCAD, OnShape, SolidWorks, Altium Designer

Manufacturing: FDM 3D-Printing, Manual Lathe, Manual Mill, Laser Cutter, CNC Mill, Soldering

Dev Tools: Visual Studio Code, PlatformIO, Arduino IDE, Git, Intel Quartus Prime Lite, STM32CubeIDE

Education

Bachelor of Engineering (Honours)

Jan 2024 – Dec 2027 (expected)

University of Technology Sydney (UTS)

- Major in Mechatronics with a WAM of 70 and GPA of 5.0
- High Distinction in *Intro To Mechatronics Engineering*
- Distinction in *Intro To Mechanical Engineering*

NSW Higher School Certificate

Jan 2018 – Dec 2023

The Ponds High School

- First in HSC Engineering Studies with an 87% average

Professional Experience

Jan 2025 – present

Launch Officer

UTS Rocketry

- In charge of co-ordinating launches with team lead at Whalen
- Ensured smooth operation and execution of launches on-site

Squadron Supply Officer

Nov 2024 – present

320 SQN - AAFC

- Organised uniform orders for 50+ cadets
- Worked with staff and HQ to replace supply and place orders

Employment

Dec 2023 – present

Private Tutor

Alchemy Tuition

- Crafted instructional activities with attainable goals, empowering students in learning specific academic skills while increasing testing scores by more than 20% on average

Extracurricular Involvement

Mar 2024 – present

Civilian Staff

320 SQN - AAFC

- Leading and mentoring cadets in various capacities, including aviation, teamwork, and discipline.
- Organized and conducted training sessions to develop leadership skills in young cadets.

Relevant Projects

Jul 2024 – Nov 2024

Intro To Mechatronics

Satellite Tracker

- Designed and built a custom satellite tracker for real-time satellite tracking
- Utilized Orbitron to obtain live satellite position data
- Implemented serial communication to transmit data to a microcontroller or motor driver
- Developed a system to control stepper motors for precise azimuth and elevation adjustments
- Ensured automated tracking without manual intervention for accuracy and efficiency
- Configured the system for multiple satellites, supporting amateur radio, satellite observation, and educational use

References

Available upon request