Himavaan Chandra

Education	
Bachelor of Engineering (Major in mechatronics) Diploma in Pro	ofessional Engineering Practice
University of Technology Sydney (UTS)	Feb 2017- Nov 2021 (Expected)
• GPA: 5.6/7	
• WAM: 75.85	
Academic Achievements	
Thales Senior Cooperative Scholarship 2020	
Technical Skills	

Software: SolidWorks, Jira, Confluence, Trello, GitHub, Microsoft Azure, Visual Studio, Arduino, Autodesk (3ds Max, Maya), Adobe (Illustrator, Photoshop, Premiere, After Effects), SSMS, Virtual Battlespace Simulator 3, VBS Blue IG, Microsoft Office software, Betaflight, INAV, ArduPilot and BLHeli configurator.

Languages: C, C++, Python, MATLAB, SQL, Angular.

Systems: Windows, Ubuntu, Kali Linux, ROS

Version Control: Git

Hardware: Drones and other radio controlled aircraft and vehicles (Flight controllers, speed controllers, receivers, control link transmitters, video transmitters, cameras, motors, servos, video goggles and antennas), 3d printers, Raspberry Pi 4, HTC VIVE and VIVE Pro, Arduino boards and sensors.

Employment_____

Intern – Engineer

Thales Australia Jul 2020-Dec 2020

- Integrated software and hardware systems into a training system.
- Wrote C++ code to help integrate the different systems.
- Integrated multiplayer virtual reality systems into the training system.
- Demonstrated prototype systems to potential clients.

Intern – Software Engineer

MedicalDirector

Aug 2018-Jan 2019

- Helped create software automation scripts.
- Helped write unit tests in C# to test code.
- Created a web application in Angular.
- Migrated medical practice data to new software.
- Debugged data migration errors using SQL.

Pharmacy Assistant

Chemsave Wentworthville Plaza

Jan 2017-Oct 2018

Projects
Videos of projects that I have completed can be found on my YouTube channel Himatronics. Here is a playlist of the projects:
https://www.youtube.com/watch?v=gbckllF_aLk&list=PLFmuo2oK45nfhSqZsGDM_cBSUrgNj3TuZ
Portfolio: https://himavaanchandra.github.io/
Core Skills
Problem solving skills - I developed good problem solving skills when working for Thales Australia as I worked with many different software and hardware systems and integrated them together. Additionally, I have completed a lot of trouble shooting in ROS, C++, and Python for subjects in my university degree.
Communication skills - I strengthened my communication skills when teaching ROS to my mechatronics group for our laser tag robots project (A video of the project is in the playlist of project videos above). I also demonstrated good communication skills when working at Thales Australia though the pandemic since I was able to continue working with a lack of contact hours with my supervisor due to restrictions.
Interpersonal skills - Developed good interpersonal skills working as a pharmacy assistant and assisting many customers and when demonstrating prototype systems to potential clients at Thales Australia.
Extra- Curricular Activities UTS Motorsports Autonomous Team - On this team I am programming a vehicle to race around a track autonomously using computer vision. A neural network is used to detect cones lining the track then a racing line is developed using this data.
Thales Tech Challenge 2019 – I competed in the Thales Tech Challenge to develop a portable longrange surveillance UAV. Our team were the runners up in the country final.
Drone Racing – I enjoy building and tuning drones and competing in drone races.
3d Printing – I enjoy doing 3d printing to make accessories for my drones and robots such as GoPro and motor mounts.
UTS Droid Racing Team 2018 Participant – Coded an Arduino to accept input values from a computer, interpret them and output the values to an electronic speed controller and servo.
Mentor for the Robotics IGS (International Grammar School) team competing in the FIRST Robotics competition in 2017.
Referees
Available upon request.