

James Condos

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EDUCATION

University of Melbourne

Melbourne, VIC

Bachelor of Science – Major in Mathematical Physics

2019 - Expected Dec 2022

- H2B – Second Class Honours – Advanced Maths (Abstract Algebra, Differential Forms), Quantum Physics

Diploma in Computer Science

2019 - Expected Dec 2022

- H1 – First Class Honours – Projects in Java, C, Python, Machine Learning

Masters of Computer Science, Physics or Mechatronics

2023 – Future Date

- Planning to begin (Unless Otherwise)

Caulfield Grammar School

Certificate of Academic Achievement for Mathematics

Silver Award of Excellence

2013 - 2018

- ATAR of 91.00

EXPERIENCE

Melbourne Space Program

Melbourne, VIC

CO – LEAD for ACRUX – 2 Project

Jan 2022 - Current

- A non-for-profit independent organization, where study, engineering and discussion is heavily focused on ambitions space projects
- Currently working on the ADCS (Attitude Determination and Control Systems) team for ACRUX – 2, where we are aiming for a 2024 launch of a satellite into low earth orbit (Overall payload (Aim of Satellite) has yet to be decided)
- My responsibilities include:
 - Deriving the relevant equations of motion and modelling the satellite dynamics in MATLAB and Python
 - Researching control algorithms and implementing them through a range of sensors and actuators. One example is the B-Dot algorithm, which uses a magnetometer and magnetorquer for de-tumbling
 - Writing code in C++ to implement the ADCS finite state machine, interface with the sensors and actuators, reaction wheels, sun sensors and communicate with the On-Board Computer (OBC)

GamePlan Coaching Tutoring

Melbourne, VIC

Tutor

Aug 2022 – Current

- Tutoring, advising, coaching, and guiding high school students in the VCE curriculum for STEM subjects
- Tutoring university students for subjects in physics, math's and computer science

Woolworths

Melbourne, VIC

Deli Team Member

Nov 2017 – March 2022

- Serving customers and assisting managers in product quality and pricing
- Cleaning the deli regularly and unloading all deli products from delivery trucks
- Training younger team members and incorporating a fresh style of learning

APA Group

Student Intern in CICD and DevOps (Software Development)

(Continuous Integration and Continuous Deployment)

Melbourne, VIC

Jan 2022 – March 2022

- Working in a collaborative team setting, working continuously with Java and MySQL implementation and development, where my team's goal was to bridge the gap between development and operations
- Working with Team City, Octopus Deploy, Bitbucket and Git
- Contributed to a work environment that fosters innovation, teamwork and high achievement

University of Melbourne

Summer Research project for the School of Physics

Melbourne, VIC

Dec 2021 – March 2022

- An independent research project for the school of physics under an academic, with focus and study on 'Quantum Machine Learning'
- Discussed the importance of computation theory for Quantum Computers (PDA's, DFA's etc) and discussed different ways to improve efficiency of Qubit collapsing states, and how this can be utilized in data mining and statistical analysis

FMG Engineering incorporating Burns Hamilton

Student Intern

Melbourne, VIC

Nov 2018 – Dec 2018

- A civil engineering company, where I performed professional duties, such as being taken on site and assessing structural flaws in the engineering of buildings
- Created professional slides/presentations and had discussions with clients on site
- Learnt about the science and theory behind civil engineering and contributed to a professional work environment that fosters innovation, teamwork and constant improvement

LEADERSHIP AND INVOLVMENT

University of Melbourne

- University of Melbourne Peer Mentor Leader *February 2022 - Current*
- Goalkeeper for University of Melbourne Soccer Club *Jan 2020 – Current*
- UMSU Host program – Touring new students through the University *February 2021*

Professional Development Course – “ALTO Climate Challenge”

Jan 2020 – Dec 2020

- Implemented a real-world solution to reduce society's carbon footprint
- Discussed a strategy of allowing companies to work from home by developing a dashboard for staff to be used in home, developed in java
- Contacting sponsors and professionals in the industry, relevant companies for advice on our scope, research by discussing the behavioral specialists

SKILLS AND DEVELOPMENT

Technical

- Proficient Applications (Excel, Word, PowerPoint, Outlook, Adobe, Photoshop, Visual Studio, TeamCity, Octopus Deploy, Atlassian Products (Confluence, BitBucket, Jira), CAD (Computer Aided Design)
- Programming languages
 - Fluent in: Python, Object Oriented Python, C, Xamarin (C++ Based), Java
 - Competent in: Haskell, MySQL, CSS, HTML, MATLAB
 - <https://github.com/JamesCondos?tab=repositories> (There are a few private repositories here also)

Referees: Helen Malliaris, Senior Project Manager at Seqirus, 0414 515 703