

Talita James

COMPUTER SCIENCE RESEARCHER · UNDERGRADUATE MECHATRONIC ENGINEER

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Technical Skills

Software Microsoft Suite, Microsoft Excel, Windows Subsystem for Linux (WSL2), Git, Airtable, Trello, Solidworks
Programming C++, C, Java, JUnit, Python, PyUnit, LaTeX, MATLAB, Bash,

Experience

Research Associate

Jun 2023 - Present

UNIVERSITY OF TECHNOLOGY SYDNEY COMPUTER SCIENCE

- Optimized code efficiency, reduced runtime from 18 hours to 20 mins through efficient algorithmic design and threading
- Ported codebase from Java to C++ to improve performance
- Research into automated decision making, game theory, and search theory
- Designed code to run on High-performance computing (HPC) clusters
- Implemented a range of algorithms such as Monte Carlo Tree Search

Programming Tutor, Casual Academic

Feb 2023 - Present

UNIVERSITY OF TECHNOLOGY SYDNEY (UTS)

- Tutored a beginners programming course in Java and Python for classes of 20-30 students
- Assisted students in identifying and troubleshoot code issues
- Crafted assignments for the students, including clear scope documentation and unit testing with JUnit and PyUnit
- Demonstrated strong communication skills and a passion for teaching and mentoring students
- Designed engaging learning materials, including coding exercises, and projects, to cater to diverse learning styles and skill levels.

Mechatronics Intern

Jun 2023 - Dec 2023

UTS RAPIDO

- Co-lead project redesigning custom 3D printer
- Worked on additive manufacturing project over the full life cycle
- Lead experiments to determine material properties
- Presented weekly updates to senior engineers, and project meetings to consult with clients
- Created documentation, including detailed handover reports, risk assessments and safe operating procedures

Education

Bachelor of Engineering, Mechanical and Mechatronic

2021 - 2025

UNIVERSITY OF TECHNOLOGY SYDNEY

(expected)

- Recipient of the Women in Engineering and IT Scholarship, 2021
- High Distinction in Thermofluids, Programming 1 and Manufacturing Engineering

Lucy Mentoring Program

2023

UNIVERSITY OF TECHNOLOGY SYDNEY

- Engaged in a mentoring program, and was partnered with engineering industry mentors
- Met with a mentor weekly over 6 months to discuss and improve my professional experience
- Participated in workshops to further develop skills and gain industry insight

Extracurricular Activity

Leader, Volunteer Event Production

2013 - 2022

COMMUNITY THEATER AND LOCAL CHURCH

- Trained over 20 new team members, and lead production for weekly youth services
- Experienced with rostering, planning and leading team
- Communicated solutions to a range of technical and non technical stakeholders
- Skilled in lighting design, live audio mixing and running live broadcasts

Administrator

May 2018 - Present

ONLINE COMMUNITY, NERDFIGHTERIA

- Manage a team of 15 moderators to create and enforce community guidelines for 10,000+ members
- Understand teamwork with members from different international backgrounds

Referees available on request