**Jawad Tanana**

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**career profile**

Designs and develops complex systems, educates and communicates and pushes beyond classrooms to find creative solutions as a driven and tenacious Mechatronic Engineer and Computer Scientist.

**personal projects**

**Arduino Projects** January 2022

**Personal**

* Constructed hardware and software system for traffic lights at age 14.
* Assembled and programmed a UAV using PLA material, Arduino, motors and ESC's to integrate and creating a functioning unmanned aerial vehicle.
* Programmed an information dumping security system utilizing an MFRC522 RFID tag, implementing a secure and efficient method for transferring data and information between devices.

**Implemented Coding/IPT into Curriculum** February 2017 - October 2017

**Al Zahra College**

* Educated K-12 aged students how to code scratch language.
* Designed and developed 2 robots and led instructional tutorials on how to control robots utilising block code and scratch interface, providing hands-on learning opportunities for 10 students and promoting an interest in robotics and coding.
* Simplified complex content for children and utilized interactive teaching methods to improve academic performance and engagement, managing classroom environment for 10 students.

**education**

**Bachelor of Mechatronic Engineering and Computer Science** February 2020 - Present

**University of New South Wales**

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| * Comp1511 - C Language. | * MMAN1130 - Manufacturing and Solid works CAD/CAM. |
| * Engg1811 - Python. | * Comp2521 - Data Structures and Algorithms. |
| * MTRN2500 - C++ and OOP, We-bots application. | * Comp1531 - API's, HTTP Routing and Backend Python. |

**experience**

**Software Engineer** November 2022 – Present

**Cochlear PTY LTD**

* Developed an Android application using Kotlin in Android Studio to test Bluetooth Low Energy (LE) connectivity, enhancing the efficiency of wireless communication testing processes.
* Implemented a backend database system for effective data storage and retrieval, significantly improving data management and accessibility for testing results.
* Designed a user-friendly front-end interface for the Bluetooth testing application, focusing on ease of use, and improving user interaction experience using Jetpack Compose.
* Collaborated in a team-oriented environment, contributing to the development, and debugging of the Bluetooth LE testing application, ensuring timely project delivery.
* Gained practical experience in full software development lifecycle and agile style of work, from concept development and coding to testing and deployment, demonstrating adaptability and a strong learning curve in a professional setting.

**Test Analyst** August 2022 – August 2023

**Conexxia PTY Limited**

* Conducted a thorough analysis of software requirements and design specifications to identify and document over 20 defects, resulting in a 30% improvement in software quality.
* Increased test coverage by 50% and reduced testing time by 20% by designing and implementing a comprehensive test automation strategy using Cypress, resulting in more efficient and effective testing processes.
* Developed and executed 300 number test cases, for both manual and automated testing, ensuring comprehensive testing of all software features and functionality and reducing number of post-release issues reported by clients.
* Maintained comprehensive test documentation, including test plans, 100's of test cases, and test results, ensuring repeatability and alignment with project requirements.
* Collaborated with development and business teams to identify requirements by reading 20 epics, write test plans, and perform test cases, resulting in enhanced product quality and faster time-to-market.

**volunteer experience**

**Volunteer** July 2018 - July 2018

**Welfare Aid International - Africa**

* Volunteered and provided support to schools, orphanages, and local communities in Tanzania through various initiatives, playing soccer games and contributing meals, positively impacting lives of numerous individuals in community.
* Delivered essential aid to locals and individuals in need of urgent surgery, collaborating with a team to execute projects for schools, such as delivering school supplies, and improving lives of more than 1000 students in community.
* Supplied 2 schools with educational and hygiene equipment, including books, pencils, computers, and hygiene products, positively impacting learning environments for more than a thousand students.

**technical skills**

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| * GitHub Workflow: Version control system. * SolidWorks: 3D CAD software. | * Jira/Confluence: Project management software. * C/C++, Python, Java, Kotlin, Jetpack Compose. |