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

EXPERIENCE

Test Analyst   August 2022 - Present
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

- GitHub Workflow: Version control system.
- Jira/Confluence: Project management software.
- SolidWorks: 3D CAD software.
- C: Procedural programming language.
- Python: High-level programming language.
- C++: Object-oriented programming language.
- Java: General-purpose programming language.