NG THUNG XENG

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Ampang Saujana, Ampang, 68000, Selangor

Education

2020 - 2024

Bachelor's Degree in Mechatronic Engineering   **Asia Pacific University**

Related coursework: Introduction to C Programming, Engineering Software and Application, Machine Vision and Intelligence, Fundamentals of Robotics

Work Experience

February 2023 - July 2023

IME Technology Sdn Bhd   **Internship**

- Gained proficiency in various 3D modeling software, including SOLIDWORKS, CATIA, and SIMULIA.
- Obtained Earned a 'Mechanical Design' certification for SOLIDWORKS
- Developed custom add-ons for clients using C# and SQL

August 2024 - Present

Devol Robots Sdn Bhd   **Software Engineer**

- Designed and developed user-friendly applications for controlling robots using the Qt framework in C++, ensuring intuitive interfaces and seamless interaction
- Implemented applications following various architectural patterns to enhance maintainability and scalability when collaborating with backend developers to ensure efficient data flow and system integration.
- Optimized applications for performance, responsiveness, and accessibility, while also improving scalability and flexibility to accommodate future development needs.

Technical Skills

- **Programming Languages:** HTML, CSS, JavaScript, React.js, C++, Python, C#
- **Basic Skills:** UI/UX design, Version control, Testing and debugging
- **Language Proficiency:** English, Chinese, Malay

Projects

Dynamic Sign Language Recognition Application
- Developed an AI model that detects 30 different dynamic sign languages
- Integrated the model with the OpenAI API to translate detected sign languages into English words and sentences
- Developed a user-friendly application in Python using tkinter with an intuitive interface for real-time translation

Rehab App
- Developed a high-level application with an accessible user interface, enabling users to configure the robot in various operational modes
- Designed and implemented data visualization features, presenting patient rehabilitation data as tables, graphs, and charts with Qt5 for easier analysis

Cobot App
- Designed and developed an interactive application in Qt6 that allows users to directly control the robot, ensuring precise and responsive operation.
- Incorporated collapsible technical panels that displays live operational data, optimizing space while ensuring accessibility for advanced users and troubleshooting purposes.

Personal Website
- Developed a website showcasing personal artwork using HTML, CSS and JavaScript. Link: https://punguuuuu.github.io/