ZHOU HUI
COMPUTER ENGINEERING GRADUATE

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A Computer Engineering graduate from the Singapore Institute of Technology with a strong background in software development, automation, embedded systems, and digital transformation. Proficient in Python, VB.NET, C, and C++, with hands-on experience in driving process optimization, digitalization, and IoT solutions.

Educations

BENG (HONS), COMPUTER ENGINEERING
Singapore Institute of Technology, 08/2022 - 04/2025

DIPLOMA, DIGITAL & PRECISION ENGINEERING
Nanyang Polytechnic, 04/2019 - 04/2022

Experience

PART-TIME PROGRAMMING SPECIALISATION
Shimano Singapore Private Limited, 01/2025 - Present, SG
- Troubleshot and optimized automation and digitalization processes using Siemens NX to boost CAD design efficiency.

PROGRAMMING SPECIALISATION
Shimano Singapore Private Limited, 05/2024 - 12/2024, SG
- Completed multiple automation and digitalization projects in Siemens NX, streamlining the CAD design workflow and significantly reducing manual tasks.

DEVELOPMENT INTERN
VDL Enabling Technologies Group, 03/2021 - 05/2021, SG
- Contributed to enterprise automation software development, including unit and integration testing and R&D improvements.
- Developed an AutoIT Bot to automate key work processes.

Personal Projects

HEXAPOD ROBOT
10/2023 - 11/2023
- An autonomous UAV that is capable of traversing on uneasy terrain

Development and integration of on board sensors, RF communication and overall integration of code. Was showcased at SIT Open House 2024.

PLACE & LEARN SYSTEM FOR BHG SINGAPORE
06/2021 - 08/2021
- An information POS machine where customers could learn more about a given product. Build using Image Classification models.

Developed embedded system software that uses a Raspberry PI, camera equipped with a custom trained ML Image Classification model built on top of the YOLO architecture. Was awarded the Outstanding Project Wrok by Sunningdale Tech Ltd

Competitions

DFWILD-CUP 2025

12/2024 - 01/2025

- Developed and trained a image classifier built on top of the Xception architecture with a custom head tuned for **Deepfake Detection**.
- Final model iteration achieved **96% Accuracy** on a held-out evaluation set.

Leadership

HEAD OF PUBLICITY & MARKETING @ SIT COMPUTER ENGINEERING SMC

01/2024 - 12/2024

- Promoted and raised awarness for other school clubs, events and initiatives through social media.
- Managed and strategized for social media channels and platforms.
- Reached out to fellow students and relevant stakeholders to organize events.

Languages

- English - Professional Working Proficiency
- Chinese - Professional Working Proficiency

Skills

- Automation & Process Optimization
- Python & C++ Development
- Machine Learning
- Embedded Systems Programming
- CAD Automation (Siemens NX)
- IoT Solutions Development

References

Mr Dylon Tan from
Shimano Singapore Private Limited
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