

JEON WONJE

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INTRODUCTION

Highly creative engineer with a passion for robotics, automation, and technology. Experienced in Robotics, Systems Engineering, Web Development and Rapid Prototyping. Entrepreneurship serves as a test bed for my ideas and engineering quality against real market precedence. My end goal is to develop and market well-engineered products.

EXPERIENCE

Sergeant

Jun 2024 - Nov 2025

Republic of Korea Army

- Squad Leader and Commander of a 5-man crew to maintain, train and operate real missions with K9A1 Howitzer

Web Developer

Feb 2023 - Jul 2023

ArcLab - Internship

- Delivered document ingestion feature for SmartTransform®, creating workforce training modules using AI
- Worked with construction companies, Woh Hup and Samwoh to improve training module generation for workers
- Developed and deployed Image Gallery feature in React with high-performance cache in Redis with MongoDB

Robotics Engineer

Nov 2022 - Feb 2023

Tinkertanker - Internship

- Developed K12 robotics education kits with end-to-end documentation for all hardware and software components
- Updated MakeCode (C++) packages, improving version compatibility of sensors with modern hardware
- Improved internal curriculum CI/CD pipelines with Python and Node.js workflow tools and scripts

EDUCATION

National University of Singapore

2023 - Present

B.Eng (Hons) Mechanical Engineering

- Grade: 4.56/5
- 2nd Major in Computer Science
- Minor in Innovation and Design

Victoria Junior College

2016 - 2022

Bomford Pinnacle Top Science Student

- Grade: 87.5/90 + H3 Physics Merit
- President of Robotics Club
- Concert Band (Winds Section Leader)

PROJECTS

[Entrepreneurship] Technical Founder - The White Card

React Native, Expo Go, MongoDB, Firebase

- Secured \$7,900 in grant funding after pitching to a panel of VCs
- Developed a cross-platform fintech app to automate budgeting through OCR and evaluate environmental costs
- Managed end-to-end product lifecycle from rapid prototyping to iOS TestFlight deployment and user beta testing

[Robotics] NUS iDP

ROS2, C++, Python, CAD (Fusion360), FDM 3D Printing, Systems Engineering

- CDE2310 Fundamentals of Systems Engineering (Mission-based Robot Development)
- CDE3301 Ideas to Proof-of-Concept (Year-long project: Autonomous Beach Cleaning Robot)

[More Projects] www.jeonwonje.com

