

# Wong Weng Wah

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Kajang, Selangor



## WORK EXPERIENCE

<b>Genting SkyWorlds Technical Department, Genting Malaysia Berhad</b> <i>Theme Park Service Engineer Executive Intern</i>	Genting Highlands, Pahang June 2024 - Sept 2024
<ul style="list-style-type: none"><li>Performed corrective and preventive maintenance on mechanical and electrical systems of six rides during and after park hours with a team of technical staff.</li><li>Maintained daily, weekly, bi-weekly, and monthly checklists in compliance with safety guidelines and industry standards, including TUV and Disney.</li><li>Maintained service reports on all corrective maintenance activities to facilitate troubleshooting and trend analysis.</li><li>Prepared comprehensive reports on bolt/screw torque values and compiled spare parts lists by referring to the ride's engineering drawings and manuals.</li><li>Collaborated with technical executives to effectively manage a team of 30 technical staff.</li></ul>	

## EDUCATION

<b>University of Nottingham Malaysia</b> , School of Electrical and Electronics Engineering <i>MEng (Hons) Mechatronic Engineering</i> Autonomous Vehicle, AI, 3D Printing, Aerial Robotics, Advanced Control Systems, CAE	Semenyih, Selangor Sept 2021 - June 2025 Results: 72% (First-Class)
<b>Methodist Boys' Secondary School Kuala Lumpur</b> <i>Sijil Pelajaran Malaysia (SPM)</i> Physics, Chemistry, Additional Mathematics, English as First Language (IGCSE)	Kuala Lumpur, WPKL Jan 2015 - Dec 2019 Results: 4A+ 1A 3A- 1B

## ACADEMIC PROJECTS

- Developed and simulated an Artificial Neural Network-based novel Maximum Power Point Tracking method for a string of solar panels using Simscape in MATLAB Simulink as part of my Final Year Project, which boasted better efficiency compared to traditional PSO and P&O methods.
- Developed and designed a semi-autonomous freshwater monitoring aquatic vehicle, measuring water temperature and water depth, as part of a group project.
- Developed a 3-DOF vehicle longitudinal simulation model in MATLAB/Simulink and validated using IPG CarMaker, and implemented a PD ABS control system.
- Reverse-engineered an Arabian Teapot using SolidWorks to generate a precise 3D CAD model, along with stunning renders of the Arabian Teapot using SolidWorks Visualise.
- Conducted FEA analysis, design studies and topology studies on wind chimes and bicycle crank arms using SolidWorks.
- Simulated an octocopter using Simulink, along with trajectory planning, and implemented simple LQR control.
- Trained a deep convolutional neural network to classify good and bad germinated palm oil seeds using computer vision techniques.
- 3D printed a shape-sorting toy using FDM technology; conducted research on current trends and advancements in additive manufacturing.
- Designed and implemented RS232 receiver and transmitter systems in VHDL using Xilinx FPGA technology.
- Performed FEA on synchronous motors using FEMM to evaluate performance and efficiency.
- Developed and designed a centrifugal clutch as part of a group project.
- Developed and designed a robotic scoop for a small-scale automation system as part of a group project.

## TECHNICAL SKILLS

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| <ul style="list-style-type: none"><li>MATLAB/SIMULINK</li><li>CAD using Solidworks</li><li>IPG CarMaker</li><li>C / C++ / Python Programming</li><li>Microcontroller programming (Arduino &amp; Raspberry Pi)</li></ul> | <ul style="list-style-type: none"><li>FDM 3D Printing</li><li>Computer Vision &amp; AI</li><li>FPGA Xilinx</li><li>Embedded Systems using PIC16F887</li><li>Using Ubuntu</li></ul> |
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## LANGUAGES

- English (Business Fluent)
- Bahasa Malaysia (Good / Conversational)
- Mandarin (Basic Knowledge)
- Cantonese (Mother Tongue)

## CERTIFICATIONS

<b>World Robot Olympiad New Delhi 2016</b> High Distinction International Level	<b>UNM IEEE Maze Solving Competition 2024</b> Champion
<b>UNITEN Green Millennial Exhibition 2019</b> 1st Runner Up National Level	<b>UNM Arduino Soccer League 2024</b> Best Design