Beverly Low

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EDUCATION

National University of Singapore

Bachelors of Computer Engineering Aug 2023 – May 2027

- GPA 4.84/5
- Academic Clubs/Programme: IEEE-HKN member, NOC Vietnam 3 Months Programme in Y1 Special term

Hwa Chong Institution Feb 2021 – Nov 2022

Subject Combination: Physics, Chemistry, Mathematics, Economics (4 H2s)

- 3 Distinctions at the GCE 'A' Levels, AAA/B, University Admission Score: 85/90
- Academic Awards: Hwa Chong Diploma with Distinction (2022), Edusave Character Award (2022)

WORK EXPERIENCES

PIXTA Vietnam (Hanoi)

Business Incubation Intern May 2024 - Aug 2024

- Created and edited over 15 dynamic videos, designed posters, and introduced innovative content concepts, elevating brand identity.
- Achieved a 28% increase in video views, driving a 100% growth in audience engagement and expanding the follower base from 224 to over 4,000.
- Enhanced production efficiency, increasing output from 2 to 5 videos per week, boosting content delivery and retention.
- Led over 7 content shoots as Creative Director within 12 weeks, demonstrating leadership and creative vision.

PROJECTS

Command-Line Fitness Tracker Sep 2024 - Present

- Developed a command-line terminal application to log workouts and track fitness progress, enhancing user engagement and fitness accountability.
- Leveraged object-oriented programming principles in Java to build a modular, scalable architecture that optimizes code reusability and maintainability within a CLI environment.
- Increased user engagement by providing a streamlined logging process; improved maintainability with a scalable, modular codebase through object-oriented programming principles.

Remotely Operated Search and Rescue Robot Jan 2024 - May 2024

- Developed a fully autonomous robotic system optimized for remote search and rescue missions, capable of real-time mapping, obstacle avoidance, and individual detection.
- Configured control systems using Raspberry Pi and Arduino Mega, integrating advanced Lidar, SLAM (Simultaneous Localization and Mapping), and ROS (Robot Operating System) technologies for spatial navigation and situational awareness.
- Engineered a color-sensing mechanism to differentiate between healthy and injured individuals, and developed customized movement algorithms for optimized maze traversal and efficient decision-making under complex conditions.

CO-CURRICULAR ACTIVITIES

Bumblebee HornetX (Autonomous Underwater Vehicle Competition Team)

Member, Power Subteam (Electrical Team) Aug 2024 – Present

- Designed and engineered the power architecture for an Autonomous Underwater Vehicle (AUV), optimizing for efficient power distribution and system stability under dynamic underwater conditions.
- Worked closely with cross-functional subteams to integrate electrical components seamlessly with mechanical, control, and propulsion subsystems, ensuring cohesive functionality and alignment with competition requirements.
- Designed and manufactured custom PCB boards tailored to competition standards and specific team needs, emphasizing safety, durability, and efficient performance.

SKILLS

Software	C, C++, Java languages, Data Structure and Algorithms, Object-Oriented Programming
Tools:	Git, Github, Intellij
Hardware	PCB Design and Assembly, Embedded Systems, Fusion 360, 3D modeling and printing

INTERESTS

Languages:	Fluent in both English and Mandarin
Interests:	Trading, Robotics, Bouldering, Surfing, Videography