Jirat (Aomsin) Nimsombun

Co-op: Available for 4 months beginning May 2025

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EDUCATION

University of British Columbia Vancouver, BC

Bachelor of Applied Science in Integrated Engineering, majoring in Computer and Mechanical *Expected: April 2028*

International Major Entrance Scholarship Recipient (CAD 80,000)

TECHNICAL EXPERIENCE

Summer Engineering Intern, Facility Management – One Bangkok May 2024 – August 2024

Jones Lang LaSalle (JLL) *Bangkok, Thailand*

- Assisted with MEP systems, safety/security, cybersecurity protocols, ERP integration, and SOP development.
- Contributed to the optimization of facility management processes, ensuring efficient operations across teams.
- Developed Swim Lane diagrams and flowcharts to enhance process efficiency for the district command center, collaborating closely with Certis Singapore to optimize Mozart for Day-to-Day Facility Management (DOFM) use.
- Implemented improvements that increased operational efficacy and streamlined facility management processes.

OTHER EXPERIENCE

Admin Team Member September 2023 – Present

UBC Thunderbots *Vancouver, BC*

- Oversaw sponsorship acquisition through PAF applications, website management and crowdfunding initiatives.
- Supported community engagement and alumni relations to enhance the team's visibility and overall impact.

Co-President, Executive Member, and Director of External Affairs April 2024 – Present

UBC Association of Southeast Asian Clubs (UBC ASEAC) & UBC Thai Aiyara *Vancouver, BC*

- Coordinated the "Taste of SEA" event, managing consulate relations to promote SEA culture awareness.
- Secured sponsorships, managed external relations, and strengthened partnerships for both organizations.
- Directed event planning, project management, and collaborations with student associations to enhance outreach.

PROJECTS

AI-Controlled Blimp | *IGEN 230 - Introduction to Engineering Design* November 2024 – Present

- Led a six-person team to develop an AI-powered blimp with autonomous navigation and obstacle detection.
- Applied computer vision algorithms for real-time obstacle detection and path planning in dynamic environments.
- Designed wireless communication for monitoring and control between the blimp and a ground station.

National Strategy Consulting Competition (NSCC) 2024 | *Competitor* November 2024

- Developed strategies to address financial challenges for TransLink, focusing on revenue growth and cost reduction.
- Proposed a three-phase solution including advertising, event-based services, and an integrated Super App.

Line-Following Robot | *IGEN 230 - Introduction to Engineering Design* September 2024 – January 2025

- Designed and built a robot to autonomously follow a path using infrared sensors for line detection.
- Optimized PID parameters to enhance performance and ensure smooth operation in varying conditions.

SKILLS, LANGUAGES AND INTERESTS

Coding: C, C++, MATLAB

Software: Arduino, SOLIDWORKS, MATLAB, Office 365, G-Suite

Languages: Fluent in English and Thai; conversational proficiency in Mandarin.

Interests: Swimming (Provincials), Track & Field (Provincials), Golf, History, Thai Politics, Skiing, Basketball