Jeska Maya Tubongbanua

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SKILLS

- Built a strong foundation in technical documentation, data analysis, and design fundamentals through courses: programming, physics, calculus, and engineering design
- Utilized project management tools such as Click Up, Google Forms, sheets, docs - to coordinate tasks, track deadlines, and streamline workflows across multiple team initiatives
- Applied Microsoft Excel and MATLAB to analyze simulated lab data and automate calculations for engineering reports
- Independently analyzed and worked on complex design requirements into functional 3D models using SolidWorks, meeting multiple tight deadlines with precision and efficiency
- Passionate advocate for women in STEM, actively engaged in the engineering community and promoting girls' education through outreach and involvement in STEM events
- Computer Proficiency: Spreadsheets, Docs; Photoshop, Illustrator, Premier Pro; Canva, Figma, FireAlpaca
- Proficient in the programming languages: C++, Python, MATLAB
- Computer-aided Design (CAD) Softwares: OnShape, SOLIDWORKS, TinkerCAD

EDUCATION

Ontario Tech University   Oshawa, ON
Bachelor of Engineering, major in Mechatronics Engineering and Co-op   *Sept 2024 – Present*
Expected graduation year: 2029

- 4.24/4.3 cGPA (4.3 Scale)
- Relevant Coursework: Technical Communication, Object Oriented Programming & Design, Concurrent Engineering, Circuits and Electronics

WORK EXPERIENCE

Engineering Outreach Program Instructor   May 2025 – Aug. 2025
Ontario Tech University   *Oshawa, ON*

- Formulated and presented creative STEM educational, interactive activities for girls that foster their interest in engineering and design
- Led hands-on workshops to teach young students programming and design concepts, using interactive demos that earned positive feedback
- Collaborated and worked efficiently and enthusiastically with teammates to create engaging activities and workshops

UX/UI Designer and Developer Intern   Mar. 2025 – May 2025
Code Melain - RennelCo   *Remote*

- Collaborated efficiently to design a mobile-optimized web-app for a community platform connecting Black healthcare professionals across Canada
- Coordinated and conducted UX research and competitor analysis on AI integration to guide app feature developments while identifying key designs in UI

Long-term Care Recreation Assistant   Mar. 2023 – May. 2023
Shepherd Village Inc.   *Toronto, ON*

- Cultivated meaningful relationships with senior residents at retirement home through personalized friendly visits that enhanced their quality of life and sense of community
- Provided vital support to recreation supervisors by managing physically demanding activities, contributing to a comprehensive wellness program

Leadership Experience

Vice President of Finance & Administration
May 2025 – Present

Ontario Tech Engineering Students' Society
Oshawa, ON

- Oversaw and maintained all financial operations, including preparing annual and semester budgets, managing disbursements, and recording transactions in an organized ledger system
- Led the development of sponsorship packages, coordinated payments, and collaborated with external partners to secure funding and industry support
- Initiated project management that includes task tracking, organizing a team with 20+ people, and ensuring operational efficiency

Vice President of Social Media & Communications
Sept. 2024 – May 2025

Student Section of American Society of Mechanical Engineering (ASME)
Oshawa, ON

- Lead the creation of visually striking Instagram content that has boosted event attendance by showcasing opportunities and announcements in an engaging format
- Lead the development of a cohesive social media strategy that amplifies ASME's brand identity and core values while significantly expanding digital reach

Robotics Judge and Referee
Nov. 2022 – Jan. 2025

FIRST Robotics - LEGO League
Toronto, ON

- Evaluated competing teams' innovation projects and core values as a Provincial Judge at the Nov. 2024 Mary Ward LEGO League Qualifier and the Jan. 2025 FLL Provincial Championships at Durham College
- Contributed to the development of young STEM talent by providing constructive feedback and recognizing exceptional technical problem-solving and teamwork skills

Awards

1st place at Autonomous Drive Club (ADC) - Figma Interface Challenge
Feb. 2024

- Won 1st place among 10 other teams by collaborating and designing an accessible electric vehicle dashboard using Figma
- Conducted in-depth research on accessibility standards and integrating user needs for visual impairments

1st place at Demo Fest - Autonomous Line Follower Robot
Feb. 2024

- Won 1st place among 15 other teams through collaboration and designing a fully custom autonomous line following robot
- Robot was powered by an Arduino Uno, using 3 IR sensors for accurate line tracking and a motor driver for smooth motion control, with a robust chassis with precision fit components
- Programmed in C++, implementing track-specific logic to handle sharp turns and loops with precision and speed

1st place at NASA Space Apps Hackathon 2024 Oshawa
Oct. 2024

- Won 1st place among 11 other competing teams and collaborated with 5 other teammates
- Developed an interactive Geograhical Information Systems (GIS) map tool that uses NASA's data in community mapping to allow users to generate STL meshes of digital elevation and water level for terrain and Surface Water and Ocean Topography (SWOT) analysis

Best Design (Top 3) - Engineers Without Borders (UofT): Innomasters Program
Feb. 2024 – Apr. 2024

- Won Best Design (Top 3) among 10 other teams, in Clean Water and Sanitation in the United Nations (UN) and Sustainability and Development goals category
- Designed and 3D printed a robust water filtration model using Computer-Aided Design (CAD) software: Onshape

Certifications

UX Design: Research, Prototyping, Accessible Interactions
April 2025

- Analyzed and applied various user experience (UX) research methods to gather and interpret user needs and behaviors
- Explained principles and techniques to create accessible and inclusive user interface (UI)
- Developed proficiency in using prototyping tools like Figma to create and test interactive designs

Standard First Aid & CPR/AED Level C
June 2025 - June 2028

- Certified in First AID and CPR with AED
- Issued by Canadian Red Cross under Durham First Aid Inc.