Anish Paramsothy

Mechatronics Engineering

(289)-404-9194 | paramsa@mcmaster.ca | https://www.linkedin.com/in/anish-paramsothy/

Education

McMaster University Sept. 2020 – Apr. 2026

Bachelors of Engineering (B.Eng), Mechatronics Engineering (Co-op) *Hamilton, ON*

- *GPA:* 3.6/4.0
- *Relavant Coursework:* CAD/CAM/CAE; Thermal Systems Design; Embedded Systems Design; Data Structures & Algorithms; Operating Systems; Control Systems; Predictive & Intelligent Control

Experience

Project Engineer Jan. 2024 – Aug. 2024

Ferrero Canada Ltd. *Brantford, ON*

- Utilized AutoCAD to modify layout files to draft new concepts for production lines in order to utilize space more effectively and direct traffic flow of workers to a concentrated area; maintained the layout drawings of the facility to match the current state of the buildings, while adhering to company design standards
- Assisted in the startup and planning of various projects within the facility including the installation of new production lines; drafted scopes of work and collaborated with contractors to remove old machinery and piping while replacing with new equipment
- Worked alongside finance team to track unused machinery within the facility and communicated with vendors to work towards selling $50,000 of assets

CAD Design Technologist Sept. 2023 – Dec. 2023

S&C Electric Company Ltd. *Etobicoke, ON*

- Reviewed and updated plant layout drawings using MicroStation while adhering to design standards
- Utilized CMMS software Limble to apply 5S lean manufacturing practices to manage and revitalize stock and storage rooms, transforming the unusable space to a managed and well-organized room to allow for easy access of materials to increase work flow of maintenance staff

Projects

Remote-Controlled Vehicle Design | *Autodesk Inventor, Autodesk Fusion 360* Jan. 2025 – Apr. 2025

- Developed a manufacturable assembly design of a FWD remote-controlled vehicle including stepper motor located in the middle of the vehicle and gear train
- Iterative design process with key considerations such as use of worm gears to prevent driving of the vehicle outside of the motor
- Performed finite element analysis (FEA) to plan future optimizations on potential critical points, such as reducing material usage in the base in trade for increasing the material usage in the axles of the vehicle
- Utilized Fusion 360 to develop an additive manufacturing (CAM) layout to assess print time and overall feasibility of design

Digital Signal Processing | *Verilog, DE1-SoC* Jan. 2025 – Apr. 2025

- Developed Verilog code to read continuous audio sample input, and broadcast output through either an "FIR Filter" or "Echo Machine" modes
- FIR filter developed with parameterized taps to reduce or increase effectiveness of filtering in relation to specific frequencies
- Echo created through the use of a shift register to delay signal and attentuation of extra noise

Technical Skills

CAD: Autodesk Inventor, Autodesk Fusion 360 (CAM/CAE), AutoCAD, MicroStation, SketchUp, SolidWorks
Software/Hardware: C, Verilog, C++, Assembly, Python, MATLAB, Arudino, Raspberry Pi, STM32, DE1-SoC
Other: Microsoft Office Suite (Excel, Project, PowerPoint), Multisim, Maple, Digital art