Matthew Jarzynowski

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EDUCATION

McMaster University **Sept. 2022 – 2027**

Bachelor of Engineering, Electrical Engineering *Hamilton, ON*

- Currently in level two, enrolled in the combined ECE (Electrical and Computer Engineering) faculty
- Maintaining a strong academic record, consistently achieving above-average grades in core engineering classes
- Applied theoretical knowledge of mechanical, industrial design, and electrodynamics into various projects
- Thorough understanding of concepts related to electromagnetic waves, mechanics, & logical systems
- Competed in various design competitions heavily weighted on the creativity of one's design, and or viability
    - Annual McMaster Design Competition (2022)
    - 1P13 Project 1 – Wind Turbine Inquiry
- Engaged in course design activities related to the engineering design process in terms of iteration
    - Applicable Courses: *1P13 – Engineering Design, 2DI4 – Logic Design, 2CI4 – Circuit Analysis*

RELAVENT COURSES

2DI4 – Logic Design **Sept. 2023 – Dec. 2023**

Dr. Thomas Doyle *McMaster University*

- Logical analysis in terms of gate level minimization, binary numeral systems, & Boolean algebra
- Laboratory based experience with designing logical systems in terms of combinations of logic operators

2CI4 – Circuit Analysis **Sept. 2023 – Dec. 2023**

Dr. Ayman Negm *McMaster University*

- Electromechanics & dynamics in relation to electrical circuits and how they interact with AC/DC power sources
- Hands-on experience with building various circuits and interacting with the AD2 combined oscilloscope

2SH4 – Principles of Programming **Sept. 2023 – Dec. 2023**

Dr. Scott Chen *McMaster University*

- Compilation, implementation, and algorithmic design in the C/C++ programming language
- Insightful knowledge in overall C structure, from assembly-based interpreter to high-level function calls

1P13 – Engineering Design **Sept. 2022 – Apr. 2023**

Dr. McDonald, Dr. Doyle, Dr. Ebrahimi, Dr. Fleisig, Dr. Hassan, Dr. Zurob *McMaster University*

- Complete understanding of the engineering design process through theory and real-world experiences
- Gained skills within mechanical, structural, and industrial design in terms of project based learning
- Finished first in a course-wide design competition relating to overall creativity, viability, and deliverability

SOFTWARE SKILLS & INTERESTS

- **Software**: Autodesk Suite: Inventor, AutoCAD, Fusion 360, Tinker CAD, CFD, VRED; MATLAB; Visual Studio; Visual Studio Code; Prusa Slicer; Ultimaker Cura; Microsoft Office Suite
- **Language Proficiency:** Python (Advanced), CSS/HTML (Intermediate), JavaScript (Beginner) C/C++ (Intermediate)
- **Personal Skills:** effective communication; high attention to detail; adaptability; critical feedback; time management
- **Interests:** graphic and web design; industrial level automation; optimization; hiking; high-intensity cycling