



Richard A. Tasse

Functional summary

Professor at Mohawk College involved with Apprenticeship and Post-Secondary education. Curriculum development including LMS development with D2L and Canvas. Lead designer for department courses. Currently promoting the use of Augmented and Virtual Reality technologies for course delivery. Awarded and Completed research project for Mohawk College for the development of courses using the HoloLens technology.

Have experience with Unity, Blender and 3DS Max. Competent with computer programming software and hardware. Experience with C# and JavaScript. Have completed courses in AutoCAD, Autodesk Inventor and flash animation. Have completed the AR/VR innovation certificate program at Mohawk College.

Certified Industrial Electrician (442A) with extensive electrical background.

Assisted with the design and development of Automated Guided Vehicles for the US Government. Project lead of the assembly and wiring of AGV's and assisted with the Danaher Control Systems software development and implementation.

Have experience in office and business management. Held numerous supervisory positions and have excellent employee, customer and student relations.

Work Experience (applicable)

- **05/2008 – Present**
Professor and Technologist

Mohawk College

Professor for the Electrical Apprenticeship Program, Post-Secondary Education and Skills Pathways Program. Courses include Electricity, Electronics/Lab, PLC/ControlLogix, Motor Controls and other related subjects. Involved with classroom development for student educational projects and training. Assisting with the development and maintenance of student labs. Introduction of new technologies to enhance student success and involvement.

- **11/2004 – 11/2008**
Industrial Electrician's Apprentice - 4 years Completed

Jervis B. Webb

Assembly of Electrical Control equipment and devices for automated material handling machinery. Assembly and design of Control panels. Canadian technical representative for automated SmartCart system and Large AGV units. Assisted in the design, development and responsible for the programming of a table positioning system involving Sew Eurodrive Movidrive-B drives controlled through a ControlLogix PLC with safety features and operator stations.

- **05/1996 – 04/2004 Picture Magic (L.E.D.S.) Stoney Creek, On**
Owner Operator

Manage warehouse and production. Graphic and circuit design of posters. Office administration. Sales, customer service and supervision of employees.

1988 – 1990 Ontario Hydro

Operator in training

Operating power grid for the Hamilton/Burlington/Dundas area. Scheduling equipment outages for repair and maintenance. Oversee safety conditions. Locations include Ontario Power, Niagara Falls, Burlington and Scarborough.

1984 (Co-op Terms) + 1987-1989 Ontario Hydro Toronto, On

Ontario Hydro Research

Supervision of the Environmental Testing Chamber. Developed Software and Hardware that could monitor amperage during flashover on insulators under various weather conditions and convert this analog signal into digital format to be analyzed by software. From assistant to supervisor in 2 months.

Research technician assisting with design, set up and testing of various High Voltage apparatus and equipment. Developed a voltage meter to measure and warn linemen of high ground voltages induced by adjacent active High Voltage power lines, this included software to help analyze the induced voltages.

Other duties included High voltage and high current testing of various high voltage components, i.e.; Capacitors, switches, fuses and insulators.

Electrical Technician – Pickering Nuclear Power Plant

Circuit verification and control circuitry inspection of new construction and upgrades of Reactor Unit. Worked with engineers on analysis and organization of Control Circuitry Diagrams.

Began the development of the High Voltage warning device for Linemen, which was continued upon my rehiring after college.

Protection and Control Technologist – Northern Ontario, Dymond TS

Testing and circuit verification of protection and control systems for all TS stations and generating systems between Temagami and Kirkland Lake.

Education

- **Augmented and Virtual Reality Innovations Certificate.**
- **Certificate of Qualification, Industrial Electrician, 442a**
- **PLC Programming 1 - Sept. 2005 - Mohawk College - Hamilton, On.**
- **Inventor - July 2005 - Mohawk College - Stoney Creek, On.**
- **AutoCAD 1 - June 2005 - Mohawk College - Stoney Creek, On.**
- **University of Waterloo – 2000 - 2002 - 2nd year BSc Honours Science**
- **Operator-in-Training - 1988 – 1990 - Ontario Hydro On.**
- **Computer Electronics Engineering Technologist - 1984 – 1987 - Mohawk College - Hamilton, On. Diploma**

Languages French and English

Personal Objectives

To introduce, implement and champion the use of AR/VR technologies in Education. To use this technology to engage students leading to increased success. To give the opportunity for students and allow access to achieve training and educational certification worldwide.