

EXPERIENCE

Educator

Wyoming Public Schools

Wyoming Park High - Rogers High - Wyoming High - Frontiers Program

September 1998 - June 2022

Responsible for development and implementation of curriculum for the following departments: Business, Mathematics, and Technology(*Electives*)

- Comprehensive list of the classes taught::
Calculus, Pre-Calculus (*and FST version*), Algebra I and II, Geometry, Pre-Algebra, Integrated Mathematics, Electronics(PLTW), Computer Science: Programming I, II, III, and IV (Visual Basic,SNAP, C++, Python, and JAVA), Computer Aided Design I and II (Mechanical Desktop, AutoCAD, and Solidworks), Robotics (LEGO Mindstorms and TETRIX Robotics), Computers: MS Office Applications and Google Apps Computer Repair (A+ Certification), Explorations of Technology, and Personal Finance.

Controls Engineer

Rapistan Demag, Grand Rapids, MI

December 1993 - August 1998

(continued as contract engineer from August 1998 to August 2002)

Responsibilities and Experiences:

- Creating a working design from the customer's concept, monitoring through manufacturing, overseeing installation, providing on-site maintenance, on-call service, and troubleshooting support.
- Developing training sessions for managers, supervisors, and the maintenance personnel on the daily operations and long term care of an automated conveyor systems
- Received specialized experience in Parel (Roadway Package System), Distribution Centers(Walmart and K-Mart), and Baggage Handling Systems (Denver International Airport- DIA).
- Gained working knowledge of PLC programming, C Programming, and Electrical Field Wiring.

Contract Designer

Rapid Design Services, Grand Rapids, MI (*worked exclusively at Rapistan Demag*)

January 1992 - November 1993

Responsibilities and Experiences:

- Collaborating with engineers on designs of automated conveyor systems
- Coordinating with Manufacturing to insure timely completion
- Received specialized training in Unigraphics II and AutoCAD systems

Library Assistant / Researcher

Western Michigan University Business Library

January 1990 - August 1991

Construction / Carpentry Work

Visser Brothers, Grand Rapids MI

June 1985 - August 1989

PROFESSIONAL DEVELOPMENT and CERTIFICATIONS

Professional Education Secondary Certification, State of Michigan, *1998-2023*
Business Administration (GH) 7-12
Mathematics (EX) 7-12
Physics (DE) 7-12

CAD Solidworks , Grand Rapids Community College, *Summer 2018*

JAVA Programming , Grand Rapids Community College, *Summer 2015*

HTML Essentials , Grand Rapids Community College, *Winter 2013*

Database Design & Development , Grand Rapids Community College, *Fall 2012*

Internet Scripting , Grand Rapids Community College, *Winter 2007*

Web Design Fundamentals , Grand Rapids Community College, *Winter 2006*

Desktop Publishing , Grand Rapids Community College, *Fall 2005*

Network of Educator Astronaut Teachers (NEAT)

Selected by NASA as an Outstanding Educator

NASA Johnson Space Center, *Summer 2004*

NASA Kennedy Space Center , *Summer 2005*

Visual Basic Programming , Ferris State University, *Summer 2002*

Auto CAD Seminar , Grand Rapids Community College, *Summer 2001*

Digital Electronic “Project Lead The Way”

Rochester Institute of Technology, *Summer 2000*

Engineering Design/ Mechanical Desktop 4.0 “Project Lead The Way”

Rochester Institute of Technology, *Summer 1999*

Professional Engineers Exam

Successfully completed Part I, *October 1991*

ADVISING COACHING COMMUNITY

FIRST Robotics Team 858 “The Demons” , Advisor / Mentor (*Founding Member 2001*)
Wyoming Public Schools funded team that competes Regional and Nationally

Coyotes MTB Team, Mentor / Level 3 Coach (*Founder 2017*)

A Community Youth Mountain Biking Team that competes in MISCA

Grand Rapids Girls Robotics Event, Coordinator (*Founder 2016*)

A Community Outreach Event to engage more young ladies in STEM

Coaching

X-Country, Track, Basketball, and Tennis

Advising

Science Olympiad, Chess Club, and Internship Program for Consumers Energy

EDUCATION

Master in Education

Aquinas College, Grand Rapids, MI, *December 2000*

Bachelor of Science in Engineering

Western Michigan University, Kalamazoo, MI, *August 1991*

Major: Electrical Engineering

Minor: Business

Associate of Science

Grand Rapids Junior College, Grand Rapids, MI , *May 1987*