

Kalpana Chawla

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Highlights of Qualifications

- Currently enrolled in the Master of Engineering, Systems and Technology (co-op) program at McMaster University
- Strong product design, development and testing skills gained while working on number of different products
- Excellent leadership, teamworking, communication, and time management abilities developed through running a successful venture for 3+ years
- Intermediate experience in drafting, designing, and modeling with AutoCAD and SolidWorks, as well as in PLC, HMI, and SCADA programming

Education

Master of Engineering (M.Eng.), Systems and Technology

Sept 2021 – Present

McMaster University, Hamilton ON

- **Specialization:** Digital Manufacturing
- **Relevant Coursework:** Advanced Robotics and Automation, Industrial Components, Networks and Interoperability, Industrial Automation, Sensors and Actuators, Technical Communications

Bachelor of Engineering., Power Electronics

Sept 2012 – April 2016

Vishwakarma Government Engineering College, Gurjarat Technological University
Ahmedabad, India

- **Cumulative GPA:** 8.48/10.0 (*Ranked 2nd* in the class of 150)
- **Relevant Coursework:** Power Electronics Applications in Power System, Industrial Automation, Power Electronics Systems Modelling, Industrial Communication Systems, Digital Signal Processing
- **Project:** Low-cost tankless water heater using Induction Heating: published in leading newspaper under socio-economic innovative college projects

Experience

Automation Professional Trainee

Feb 2021 – Aug 2021

Neo Creative Vision Technologis Pvt. Ltd., Ahmedabad, India

- Completed hands-on learning and working with PLC controllers, HMIs, SCADA, AC Drives and Starters, Sensors and Transmitters, and other automation components
- Set up network and communication between automation devices using protocols such as RS 232, RS 485, Modbus, CANopen and various other industry standards

Purchase Co-Ordinator, Testing and Serve Engineer

June 2016 – Oct 2017

Plasma Induction, Ahmedabad, India

- Researched new vendors and partners to obtain the most cost-effective pricing for goods
- Configured and tested induction machines of ratings up-to 350 KW
- Performed inward QC of switchgears and other semiconductor components

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Experience Continued

CEO & Co-Founder

Nov 2017 – Aug 2021

Win Industries, Ahmedabad, India

- Founded & bootstrapped an equipment & service providing company for Foundries & Steel Plants
- Played a central role in the research, design, and development of a patent-pending product
- Secured a start-up grant under NIDHI EIR scheme by DST with successful incubation at Venture Studio, Ahmedabad
- Designed systems of ratings up-to 90 KW and prepared technical drawings (both electrical and mechanical) for the same
- Prepared technical documentation for operation, troubleshooting, & maintenance of the system

Extracurriculars

President | Sept Society

Sept 2021 – Present

McMaster University, Hamilton ON

- Lead team of 4 and overseeing the organization and successful hosting of various events and activities to provide tailored services and activities for graduate students in the School of Engineering
- Managed all financial dealings of the club by generating financial reports, scheduling meetings, and preparing meeting outlines, and performing other such duties pertaining to the club

Entrepreneurship Development Program

December 2019

MSME Technology Center, Ahmedabad, India

- Attended a 2-day workshop on Electric Vehicle - Charging Station Infrastructure and Technology

Start-up Fellowship Program

Feb 2019 – April 2019

Venture Studio, Ahmedabad, India

- Successfully completed the 3-month incubation program organized by Venture Studio

Skills

Software: AutoCAD, SolidWorks, RSLogix 500, TwidoSuite, Step7, GX Develop, Wonderware InTouch, Vijeo Designer

Technical Skills: PLC Programming, SCADA Development and Scripting, HMI Interface, Electrical Control Panel Design, Wiring, Testing, Technical Documentation