

# Kalpana Chawla

chawlak@mcmaster.ca | 905 – 525 – 9140 | linkedin.com/in/KalpanaChawla

## 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