

## ABOUT

ENGINEER WITH EXPERIENCE IN COMPUTERS, MACHINES & AUTOMATION.

LOOKING FORWARD, TOWARDS A ROLE THAT OFFERS BETTER INDIVIDUAL AND PROFESSIONAL GROWTH.

## EDUCATION

JAN 2016-17	MS, ELECTRICAL & COMPUTER ENGINEERING, (3.41/4) POLYTECHNIC INSTITUTE OF TECHNOLOGY, NYU
JUN 2010-14	BE, INSTRUMENTATION & CONTROLS, (7.04/10) SVIT, GTU

## SKILLS

COMPUTER PROGRAMMING:	JAVA(PRIMARY), C/C++ (SECONDARY), L <sup>A</sup> T <sub>E</sub> X(TIRTIARY), GIT, WEB(HTML, CSS, JS), DESKTOP(JAVAFX, AWT)
AUTOMATION:	MICRO-CONTROLLERS & SINGLE BOARD COMPUTERS, PLCS(LADDER-LOGIC, FBD), HMI/SCADA
INDUSTRIES SERVED:	MACHINERIES, MANUFACTURING, CONTROL PANELS, SOLAR ENERGY, EDUCATION

## WORK EXPERIENCE

### □ Automation Engineer

*Jan 22 - present*

NOR-CAL CONTROLS, CALIFORNIA

### □ Software Engineer - Machine Automation

*Feb 18 - Nov 21*

MINI-CIRCUITS, NY

- Primarily responsible for development and maintenance of Software for Robotics and Computer Vision Projects.
- Upgrading legacy Control Programs and rewrite them using new technology (mostly Java).
- Troubleshooting machine/automation/software issues related to production.
- Development and maintenance of the Website: <https://www.minicircuits.com/>
- Development and maintenance of Web/Desktop Applications to support Database Maintenance.
- **Universal Rotary Machine:**
- Integrated capabilities from different Machines into one to include more range of products to be tested.
- Successfully implemented Visual Inspection on the machine before packing the units.
- **Laser Measurement System for Mechanical Switches:**
- An R&D Project to verify dimensions of Various Switch bodies using a Laser Displacement Sensor.
- Documenting project status on Agile tool (JIRA).

### □ Developer Intern

*Sep - Dec 17*

REVMAX FLEET OPTIMIZATION, NY

- Developing Firmware for SidewalkIQ Sensor using Doppler Radar to monitor sidewalk activities.
- Successfully deployed sensors at various NYC locations.
- R&D to improve data consistency and efficiency of data storage/transfer to Server for further processing.

### □ Instructor (ITEST Program)

*May - Aug 17*

ROBOTICS & MECHATRONICS DPT., NYU

- Mentor to Robotics Club Programming Team for Robotics competitions (First Robotics & Vex Robotics).
- Teaching concepts of Computer Programming to Robotics Club Team.

### □ Lead Instructor (CREST Program)

*Feb 18 - Nov 21*

CENTER FOR K12 STEM EDUCATION, NYU

- Training High School Interns with Computer Programming (Arduino C), IoT, Robotics & 3D-Printing activities.
- **Autonomous Car (Mouse in a Maze)** - STM32 Board: [https://github.com/sap586/RTES\\_Project](https://github.com/sap586/RTES_Project)
- **Wireless Robot Controller** - Arduino: <https://github.com/sap586/WirelessRobotDay5Activity>

### □ Design Engineer

*Jun 14 - Jan 16*

PRIMA AUTOMATION, IN

- Embedded Software Development on PLCs, micro-controllers & Report Generation.
- Front-end (UX) design on HMI/SCADA for Industrial Automation applications.
- Troubleshooting and upgrading legacy Automation projects (mostly on Siemens Systems).
- Electrical & Control Panel Layout for Industrial Automation and Robotics (E-plan, AutoCAD).

### □ Trainee Engineer

*Aug 13 - May 14*

NEOPLAST (I) PVT. LTD., IN

- Embedded Software Development on Siemens PLC and Front-end (UX) Design on SCADA.