

# ↑ Sagar Panchal

sa2sanf@gmail.com • +1 (279) 842-6274 • Folsom, CA - 95630  
<https://www.linkedin.com/in/sagar-panchal-55b435122/> • <https://contacttheteam.github.io/LivingSpace/>

## ABOUT

---

ENGINEER WITH EXPERIENCE IN COMPUTERS, AUTOMATION & ROBOTICS.  
LOOKING FORWARDS TOWARDS A ROLE THAT OFFERS BETTER INDIVIDUAL AND PROFESSIONAL GROWTH.

## EDUCATION

---

JAN 2016-17 Master of Science, ELECTRICAL & COMPUTER ENGINEERING, (3.41/4)  
New York University  
JUN 2010-14 Bachelor of Engineering, INSTRUMENTATION & CONTROL, (7.04/10)  
Gujarat Technological University

## SKILLS

---

COMPUTER PROGRAMMING: JAVA(PRIMARY), C/C++, GIT  
DESKTOP APPLICATIONS (JAVAFX, AWT), WEB APPLICATIONS (HTML, CSS, JAVASCRIPT)  
INDUSTRIAL AUTOMATION: MICRO-CONTROLLERS & SINGLE BOARD COMPUTERS,  
PLCs(LADDER-LOGIC), HMI/SCADA

## WORK EXPERIENCE

---

**Automation Engineer** Jan 2022 - Present  
NOR-CAL CONTROLS, California

**Software Engineer, Machine Automation** Feb 2018 - Nov 2021  
MINI-CIRCUITS, INC., New York

- 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.

**Developer Intern** Aug 2017 - Feb 2018  
REVMAX FLEET OPTIMIZATION, New York

- 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)** Sep - Dec 2017  
ROBOTICS & MECHATRONICS DEPARTMENT, NYU, New York

- 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)** May - Aug 2017  
CENTER FOR K12 STEM EDUCATION, NYU, New York

- 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/RTESproject>
- **Wireless Robot Controller - Arduino:** <https://github.com/sap586/WirelessRobotDay5Activity>

**Design Engineer** Jun 2014 - Jan 2016  
PRIMA AUTOMATION, Ahmedabad, India

- 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 2013 - May 2014  
NEOPLAST (I) PVT. LTD., Ahmedabad, India

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