



↑sagarPanchal

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ABOUT

COMPUTER & ELECTRICAL ENGINEER,
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++/CS (SECONDARY), GIT, L^AT_EX (TERTIARY),
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

SOFTWARE ENGINEER, UNIVERSAL INSTRUMENTS, NY *Sep 22 - present*
◦ CS ◦ C ◦ Machine Automation ◦ Computer Vision ◦

AUTOMATION ENGINEER, NOR-CAL CONTROLS, CA *Jan 22 - Jul 22*
◦ Automation for Solar Power-plants ◦
◦ Ignition SCADA ◦ GE PLC ◦ SEL-RTAC ◦ Red Lion ◦

SOFTWARE ENGINEER - MACHINE AUTOMATION, MINI-CIRCUITS, NY *Feb 18 - Nov 21*
◦ Machine Automation ◦ Computer Vision ◦ Robotics ◦
◦ Java ◦ JIRA ◦ Git ◦
◦ Troubleshooting machine/automation/software issues related to production ◦
◦ Web development: <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, REVMAX FLEET OPTIMIZATION, NY *Sep - Dec 17*
◦ Developed 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), ROBOTICS & MECHATRONICS DPT., NYU *May - Aug 17*
◦ 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), CENTER FOR K12 STEM EDUCATION, NYU *Feb 18 - Nov 21*
◦ 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 ◦
◦ WIRELESS ROBOT CONTROLLER - Arduino: <https://github.com/sap586/WirelessRobotDay5Activity> ◦

DESIGN ENGINEER, PRIMA AUTOMATION, IN *Jun 14 - Jan 16*
◦ PLC ◦ SCADA ◦ Siemens ◦ Allen-Bradley ◦ Front-end (UX) ◦
◦ Electrical & Control Panel Layout ◦ E-plan ◦ AutoCAD ◦

TRAINEE ENGINEER, NEOPLAST (I) PVT. LTD., IN *Aug 13 - May 14*
◦ PLC ◦ SCADA ◦ Siemens ◦

where music meets software, checkout my new project : [beepBox](https://www.beepbox.co/) (inspired from <https://www.beepbox.co/>)