



↑sagarPanchal

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## ABOUT

COMPUTER & ELECTRICAL ENGINEER,  
LOOKING FOR A POSITION THAT OFFERS A 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<sup>A</sup>T<sub>E</sub>X(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*  
• Provide software support to develop Fuzion - Precision Bonder platform  
• Cognex Quickbuild integration in Fuzion platform  
• tech stack : · CS · C · CPP · Git ·  
  
AUTOMATION ENGINEER , NOR-CAL CONTROLS, CA *Jan 22 - Jul 22*  
◦ Automation software for Solar Power-plants  
◦ tech stack : · Ignition SCADA · GE PLC · SEL-RTAC · Red Lion ·  
  
SOFTWARE ENGINEER - MACHINE AUTOMATION, MINI-CIRCUITS, NY *Feb 18 - Nov 21*  
◦ Provide software support for pick & place Rotary machines development  
◦ Web development - Back & Front-end: <https://www.minicircuits.com/>  
◦ Enterprise application software development  
◦ tech stack : · Java · JavaFX · HTML · CSS · Javascript ·  
  
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 ◦  
◦ tech stack : · Arduino-C ·  
  
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](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 ◦