ADITYA VAISHAMPAYAN

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PROFESSIONAL EXPERIENCE:

Automation and Control Engineer - Intern (Tesla Inc., Fremont, CA)   **June 2019 – August 2019**
- Investigated and implemented from scratch a Continuous Integration and Continuous Delivery (CI/CD) pipeline in Python for FANUC robots, following software development cycle.
- Developed features such as trigger based code backup, remote code push, static analyzer, control flow tool.
- Initiated virtual commissioning for auto-trimming Tesla solar panels, using a FANUC robot and Beckhoff PLC in Siemens Process Simulate
- Performed thorough market research for the project of the teach pendent-less robot programming. Onboarded a new vendor and orchestrated the project with them for deployment.
- Commissioned Siemens & Beckhoff PLCs, IPCs. Also performed visual inspection of 40+ KUKA and FANUC robots.

Robotics Engineer - Intern (Keepsake Automation LLP, Ahmedabad, IN)   **April 2018 – May 2018**
- Independently completed MIG welding of an air control system casing using a KUKA KR 16-2 industrial robotic arm. Software Version KSS 8.x KUKA Robot Controller 4 (KRC4).
- Helped in commissioning two KUKA KR 16-2 robots. Also helped in setting robot cells and mounting end of arm tooling such as MIG, TIG guns on the robots.

Controls Engineer - Intern (Siemens Ltd., Vadodara, IN)   **May 2017 – June 2017**
- Independently wrote a program for automating lube oil system of a steam turbine using Ladder Logic.
- Also helped in making panel layouts and schematics. Also, compiled a 30-page report of my training on the steam turbines and presented it before senior engineers.

Engineering Trainee (Design Tech by Siemens)   **Feb 2017 – June 2018**
- Completed industrial training on Siemens PLC S7-1200 and learned basics of process instrumentation.
- Developed various programs on PLC software using Ladder Logic and Functional Block Diagram (FBD)
- Integrated PLC and HMI to obtain a graphical representation through PROFIBUS and PROFINET.

PROFESSIONAL CERTIFICATIONS

KUKA Robot Programming I   May 2018
Basics of PCS-7 by Siemens   April 2018 - May 2018
Basics of SCADA (SCADA System SIMATIC WinCC) by Siemens   July 2017 - September 2017
Basics of PLC (SIMATIC S7-1200, S7 – 300 PLCs) by Siemens   January 2017 - June 2017
Basics of Process Instrumentation by Siemens   July 2016 - November 2016

PROJECTS:

Bottle filling Plant Model |Siemens TIA, S7 1200 PLC, SCADA, HMI
- Independently designed a simulation model of a bottle filling plant on Siemens Automation Platform as a part of the training on Siemens SCADA and HMI.
- Used PLC ladder logic on Siemens TIA portal for implementation on Siemens S7-1200 PLC.

TECHNICAL SKILLS:

Programming: Python, C++, KRL (Kuka Robot Language), IEC 61131 (Ladder Logic and STL)
Frameworks and Libraries: Siemens TIA & Process Simulate, Beckhoff TwinCAT, JIRA, Confluence, Git

EDUCATION:

Master of Engineering in Robotics   **Aug 2018 - May 2020**
University of Maryland, College Park, MD
Bachelors in Instrumentation and Control Engineering   **Aug 2014 - May 2018**
L.D. College of Engineering, Ahmedabad, India