Sidharth Raj

Controls | Automation | IIoT

Agile Software Controls and Automation Engineer talented at contributing to multi-team development projects. Collaborative Project Engineer thrives in cross-team and multi-vendor environments. Solution-oriented problem solver with excellent communication and leadership skills with background in Software Project Engineering, Controls and Automation Engineering, and Engineering Product Development.

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📍 Chicago, IL

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📱 805-232-3369

🖱 sidharthraj1995.github.io

WORK EXPERIENCE

Technical Solution Consultant
Honeywell Process Measurement and Control ⊡

02/2024 - Present　　　　　　　　　　　　　*Chicago, IL*

Tasks

- Design solutions that address core areas such as DCS, Network Infrastructure, Advanced Controls, Connected Systems, Cyber Security.
- Actively participate in New Product Initiative, reviewing and supporting the NPI process. Understand technical details and it's interconnection with Honeywell DCS.
- Coach both internal and external audiences on various technical offerings and their associates value.
- Review proposals for technical completeness and collaborate with proposal and estimating teams to develop accurate and timely scope of work.
- Present technical and commercial business cases at multiple levels within customer organization, along with interfacing with Solutions Offering and Marketing teams providing technical support on Honeywell products.

Software Engineer II - Program Lead
Honeywell Intelligrated ⊡

05/2022 - 01/2024　　　　　　　　　　　　　*Chicago, IL*

Tasks

- Handle large-scale critical projects such as Amazon Fulfillment centers and other diverse order processing centers.
- Leverage C# and C++ skills to configure machine control solutions running conveyors and high speed sortation systems for large scale material handling projects.
- Contribute to Planning, Reporting and Management of project in addition to technical implementation.
- Development, Documentation and Maintenance of Machine Control interface standard across multiple platforms.
- Train new hire on the base code development and company specific standard equipment handling and troubleshooting.
- Provide support for Concepting & Estimating, Project Management, Systems Engineering, Installation, Product Development and Sales & Marketing.
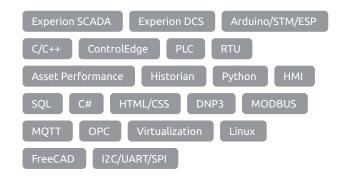
Software Engineer
Honeywell Intelligrated ⊡

02/2020 - 04/2022　　　　　　　　　　　　　*Mason, OH*

SKILLS

Experion SCADA　Experion DCS　Arduino/STM/ESP

C/C++　ControlEdge　PLC　RTU

Asset Performance　Historian　Python　HMI

SQL　C#　HTML/CSS　DNP3　MODBUS

MQTT　OPC　Virtualization　Linux

FreeCAD　I2C/UART/SPI

PERSONAL PROJECTS

Custom i3 FDM 3D Printer - DDE (2021 - 2022) ⊡
- Modified a cartesian stye Ender 3 printer with improved linear motion, efficient electrical upgrades and carefully tuned firmware for fast high quality fabrication.

HomeAssistant - RPi|Arduino|ESP (2021)
- Agile development of low-cost modules to capture daily routines, collect event based data and execute assistive commands.
- Motion-tracking w/ smart lighting; Vision-based front door security w/ radar sensed presence detection; garden management system w/ smart irrigation and env sensing and reporting*

Document Automation Tool [DAT] (08/2019 - 10/2019)
- Developed proprietary application for Honeywell to generate proposals and contracts on-the-go.
- WFA designed and developed on C# (.NET) capable of creating a new document and editing an existing document.
- Reducing the existing time taken to develop a document from 40 mins to < 10 mins, estimated to save Honeywell over 50% each year.

EDUCATION

M.S. Computer Engineering
University of Texas ⊡

08/2017 - 12/2019
Arlington, TX

B.Tech. Electronics and Instrumentation
S.R.M University ⊡

06/2013 - 05/2017
Chennai, India