Sidharth Raj

Software | IoT | Automation

Agile Software 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 and engineering product development.

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📍 Chicago, IL

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WORK EXPERIENCE

Software Engineer II
Honeywell Intelligrated ⬀

05/2022 - Present   *Chicago, IL*

Tasks

- Handle large-scale critical projects such as Amazon Fulfillment centers and other diverse order processing centers.
- 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*

Tasks

- Leverage C# and C++ skills to configure machine control solutions running conveyors and high speed sortation systems for large scale material handling projects.
- Deploy custom warehouse automation solutions, cross-team troubleshooting and project debugging for major e-com companies.
- Database management and debugging.

Software Intern
Honeywell Intelligrated ⬀

08/2019 - 12/2019   *Mason, OH*

Tasks

- Extensive management of DBs working along-side Honeywell's proprietary software to configure various customer sites.

EDUCATION

M.S. Computer Engineering
University of Texas ⬀

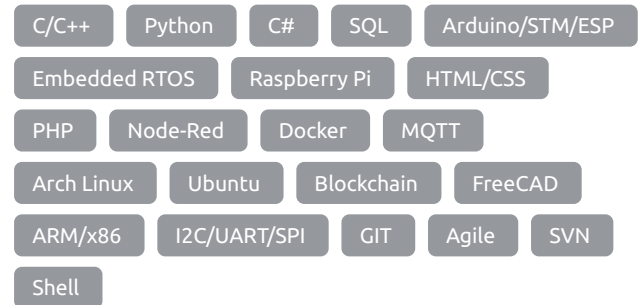*08/2017 - 12/2019*   *Arlington, TX*

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

06/2013 - 05/2017   *Chennai, India*

SKILLS

C/C++   Python   C#   SQL   Arduino/STM/ESP

Embedded RTOS   Raspberry Pi   HTML/CSS

PHP   Node-Red   Docker   MQTT

Arch Linux   Ubuntu   Blockchain   FreeCAD

ARM/x86   I2C/UART/SPI   GIT   Agile   SVN

Shell

ACHIEVEMENTS

Bravo Award - Bronze
Honeywell - Think big .... Then make it happen

Blockchain challenge
Ranked #3 in the intra-department blockchain event.

PERSONAL PROJECTS

Custom i3 FDM 3D Printer - DDE (2021 - Present) ⬀
- 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.

ORGANIZATIONS

JCrayTech (05/2021 - Present) ⬀
Advisor

Society of Optics and Photonics - SRM Chapter (2015 - 2017) ⬀
Treasurer

Delhi Public School (2012 - 2013)
Student President - Quiz Society