

Abhishek Ravikiran

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Education

Degree: Purdue University, B.Sc., Electrical Engineering

Dec '18

Certificates: Java Programming & Software Engineering (Duke Univ.), OOP in Java: Data Structures and Beyond (UCSD)

Employment Experience

Technical ERP Consultant || Calsoft Systems – Torrance, CA

Oct '19 – Present

Develop Enterprise Resource Planning (ERP) system solutions for clients by analyzing work processes, operations, and establishing objectives and specifications

- Implemented Azure DevOps for source control and team resource management and introduced DevOps practices for software development
- Identify ERP business systems solutions requirements by interviewing clients, analyzing work processes and operations, establishing solution objectives, and preparing specifications.
- Review, analyze and modify programming systems including coding, testing, and debugging to support an organization's Enterprise Resource Planning (ERP) applications.
- Develop custom applications and extensions to integrate customer's individual and unique requirements into existing Dynamics 365 products.
- Implement and support ERP system for new and existing customers including design, product configuration, testing, data conversion, user acceptance testing and go live support.

Hardware Software Engineer || Sound Life Sciences – Seattle, WA

May '19 – Sep '19

Develop Hardware and Software platforms to use FMCW sonar on a smart speaker to monitor breathing for detecting medical conditions and emergency situations

- Collaborated across a multi-disciplinary team of engineers to define and derive product specifications
- Integrated Off-The-Shelf products to build a prototype speaker
- Designed a proprietary Printed Circuit Board to allow for backup power supply in the event of a power outage
- Developed Python code to initiate system shutdown in case of loss of power
- Built cloud pipeline from Raspberry Pi to Particle Cloud for data transfer
- Enabled storage of uploaded data from Particle Cloud to Google Sheets

Electrical Engineering Intern || Draeger Safety Diagnostics Inc – Houston, TX

Jun '17 – Aug '17

Conduct feasibility studies, design and develop hardware and software platforms for an autonomous drone to operate in hazardous environments

- Kick-started Autonomous Drone project to aid monitoring of gases in hazardous environments
- Used Python to code algorithms for Drone prototype on Raspberry Pi and C# to connect Pi to PC using Bluetooth
- Discovered patent infringements by a competitor during competitive study of company's products versus competitors'

Skills and Abilities

Programming Languages: C, Python, vPython, Matlab, Java, C#, Visual Basic, HTML, JavaScript, CSS

Software Experience: BenchVue, Altium, Solidworks, EAGLE, MS Office Suite, GNU Radio, LabVIEW, Simulink, PSpice, Eclipse, Visual Studio Code, Github, LTSPICE

Languages: English (Native), Hindi (Fluent), Gujarati (Fluent), French (Conversational), Korean (conversational)

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Github: github.com/aravikir

Website: aravikir.github.io