Mohammed Hamid

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PROJECTS

Software Development for Data Acquisition and Reports Generation
Development

- Led the development of a software tool in Python to automate data acquisition for multiple hardware and software configurations; automated the data analysis and insight generation from the acquired data
- Identified hardware and software Key Performance Indicators and their impact on mass spectrometer modification
- Optimized the turnaround time required to analyze the impact of design changes made to the mass spectrometer from 3 months to 12 hours

Data Scraping from Unorganized Data set using Python
Data Science

- Led the development of a software tool in Python for data scraping to gain insights from the data generated as a byproduct of hardware testing in fabrication centers
- The tool ranked hardware components with respect to internal benchmarks to identify high-quality components
- The infrastructure helped to assemble and customize systems costing over $55000

Automation of Lyophilization Processes
Industrial Automation

- Lyophilization processes requires a constant composition of gases inside the process chamber
- Designed an automated control system using Mass Spectrometer to ensure optimum gas mix in the process chamber.
- Worked for pharmaceutical giants Pfizer and IMA Life, which share the bulk of the $2.5 billion Lyophilization Industry.

Algorithm Design for Determining Sensor Health
Algorithm Design

- Designed an algorithm using curve fitting to evaluate the health of hardware sensors in real time
- Prevented sensor damages worth $5000 in every system deployed in stress conditions

Emulator Design for a Microcontroller
Internship Project

- Simulated a microcontroller to enable testing of drivers, eliminating the need for actual hardware.
- Received Pre-Placement Offer (PPO) for this project

Team Vega Racing, Electric Automotive Club
Academic Project - PES University

- Led a team of 40 members towards the design and fabrication of an Electric Four Wheeler.
- Received a seed funding of INR 10,00,000 from PES University and INR 50,000 from Nippon Electric
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SKILLS

Object Oriented Programming

Data Structures

Algorithms on Strings

Algorithms on Graphs

Statistics

Process Automation

Databases

Data Visualization

PERSONAL PROJECTS

Python - OOPs, NumPy, Matplotlib, Pandas, OS

Java - Design Patterns, Memory Management, Parallel and Concurrent programming, JUnit

Automation - Selenium,Pytest, Jenkins

MySQL,PostGres

Linux/Windows

ORGANIZATIONS

Atonarp Microsystems PVT LTD
(04/2018 – 01/2020)
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CERTIFICATES

B.Tech Major from PES University in Electrical and Electronic Engineering (CGPA-8.49/10)
CNR Rao Scholarship worth INR 32000 for the Academic year 2014-15 and 2015-16 for being in the top 20% of the batch and Prime Minister Merit Scholarship worth INR 40000 for the academic year of 2016-17

B.Tech Minor from PES University in Computer Science and Engineering (CGPA-8.15/10)

Class XII from Kendriya Vidyalaya AFS Yelahanka , Bengaluru (Aggregate-88.6%)

Class X from Kendriya Vidyalaya AFS Yelahanka , Bengaluru (Aggregate - 95%)