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| **SUMITHA** |
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**SUMMARY**

* Project Coordinator with over 5 years of experience in the Robotics industry
* Demonstrated ability in leading prototype development and conducting design reviews, ensuring functionality and efficiency
* Proficient in programming languages such as C, C++, Arduino, and Python with expertise in robot sensors and embedded system microcontrollers, including Raspberry Pi
* Adept at troubleshooting, diagnosing, and rectifying software issues in real-time, focusing on integrated system behaviour
* Skilled in using SolidWorks for modelling and detailing, as well as AutoCAD and TALLY for various design and accounting tasks
* Experienced in sales management and administrative positions, consistently met and exceeded revenue targets

**WORK EXPERIENCE**

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| **Hiltek Robotics Research Centre -St. Xavier’s Catholic College of Engineering | May 2017 - Present**  Project Coordinator in Robotics Research Department  **Accel Frontline Services Pvt. Ltd. | June 2008 - Apr 2012**  Junior Project Coordinator  **A.K.V. Electronics | Nov 2002 - Mar 2004**  Production Engineer  **HDFC Bank | Apr 2004 - Apr 2008**  Team & Sales Manager | **@Hiltek Robotics Research Centre, St. Xavier’s Catholic College of Engineering**  **As a Project Coordinator in Robotics Research Department**   * Leading the development of innovative robotic projects such as the Obstacle Avoider Robot, Light Follower Robot, Weather Reporting Robot, Touch-based Home Automation System, Air Pollution Monitoring System, and a Face Recognition Door System * Coordinating interdisciplinary teams to design, test, and refining prototypes, ensuring that each project adhered to stringent performance and quality standards * Implementing and refining algorithms for robotic sensing and motion control, utilizing advanced programming skills in C, C++, and Python * Overseeing the integration of IoT technologies and embedded systems in robotic designs to enhance their functionality and user interaction capabilities * Organising and conducting regular project review meetings to monitor progress, identifying potential issues, and ensuring on-time delivery of milestones   **@Accel Frontline Services Pvt. Ltd.**  **As a Junior Project Coordinator**   * Managed junior-level project coordination in the manufacturing department for electronic products such as stabilizers, UPS, pen drives, printers, and scanners * Facilitated communication between cross-functional teams, ensuring smooth project flow and adherence to deadlines * Conducted quality assurance tests on manufactured products, ensuring compliance with industry standards and customer specifications * Assisted in the procurement of materials and components, maintaining optimal inventory levels and negotiating with suppliers for cost-effective deals   **@A.K.V. Electronics**  **As a Production Engineer**   * Oversaw production processes, ensuring efficient operation and high-quality output * Implemented process improvements to enhance production efficiency and reduce waste * Coordinated with the engineering team to troubleshoot and resolve technical issues in the production line * Conducted regular training sessions for production staff to improve skills and knowledge in the latest electronic manufacturing techniques |

**@HDFC Bank**

**As a Team & Sales Manager**

* Managed a team of professionals in the bank's loan department, focusing on credit and mortgage loans
* Developed and implemented sales strategies to boost loan product sales, achieving and surpassing set targets
* Conducted thorough credit analyses to assess loan applications, ensuring compliance with bank policies and financial regulations
* Provided exceptional customer service, advising clients on loan products and services to best meet their financial needs

**KEY PROJECTS UNDERTAKEN**

* **Obstacle Avoider Robot:** Designed and implemented an obstacle avoidance system for a robotic vehicle, enhancing its ability to navigate complex environments safely
* **Light Follower Robot:** Created a light-following robot capable of tracking and following a light source, demonstrating precise control algorithms
* **Weather Reporting Robot:** Developed a weather monitoring robot capable of collecting data and reporting weather conditions, showcasing data acquisition and reporting skills
* **Touch-Based Home Automation System:** Designed a touch-based home automation system, enabling remote control of household appliances through a user-friendly interface
* **Air Pollution Monitoring System:** Contributed to the development of an air pollution monitoring system, demonstrating environmental monitoring capabilities
* **Face Recognition Door:** Worked on a face recognition-based access control system for doors, highlighting expertise in biometric security
* **Surveillance Robot Using Raspberry Pi and IoT :** To detect suspicious elements and generate alerts accordingly.

**KEY ACHIEVEMENTS**

* Recognized for the **Research Project titled "A Smart Solar-based Agricultural Robot for Ploughing, Seed Sowing, and Irrigation Using IoT and GSM Technology"** by the International Journal of Scientific & Engineering Research (IJSER)
* Acknowledged as **one of the Innovators in the 150 Innovators Challenge of Sustainability**, showcasing innovative thinking and problem-solving skills

**SKILL SET**

* Robotics Expertise | Programming Proficiency
* System Troubleshooting
* Component Sourcing
* Design and Modelling
* Embedded Systems
* IoT & Connectivity
* Knowledge of cloud platforms like AWS, Google Cloud, or Azure
* Maintenance Training
* Artificial Intelligence
* Project Coordination
* Manufacturing Expertise
* Team Management
* Proficiency in AI & ML algorithms
* Ability to design and develop AI-based chatbots

**Technical Skill Set:**

* **Programming Language:** Python, R, C++, JavaScript, XML, and HTML5, SQL, NoSQL, PHP, C#, Matlab, CSS, MySQL.
* **Web Technologies:** GitHub Copilot, ChatGPT, Azure Machine Learning (AML), TensorFlow.js.
* **Libraries and Frameworks:** Django, NumPy, Pandas, TensorFlow or PyTorch, Open CV.
* **Machine Learning Algorithms:** Linear regression, logistic regression, decision trees, random forests, support vector machines, k-means clustering, hierarchical clustering, principal component analysis (PCA),
* **Deep learning architectures**: Convolutional neural networks (CNNs), recurrent neural networks (RNNs), and their variants.
* **Deployment and Productionization**: Deploy machine learning models into production environments, including techniques for model serialization, creating APIs, containerization using Docker, and deployment on cloud platforms like AWS, Azure, or Google Cloud.

**Hardware Skills:**

Microcontrollers | Sensors & Hardware Integration | Robot Control Algorithms | PID Control | SolidWorks | Raspberry Pi

**Certifications:**

* Programming Essentials in Python from Cisco Networking Academy,
* Microsoft Azure AI Engineer Associate from ICT Academy.

**EDUCATION**

* **Bachelor of Engineering in Electronics & Communication Engineering** from Oxford Engineering College, Jul 1998 - May 2002
* **Diploma in Electronics & Communication Engineering** from Annai J.K.K. Polytechnic College, May 1995 - May 1998