**Avinash Kumar**

**Residence Address:**

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# Current Profile: Senior Systems Analyst (R&D)

**Profile Headline**

Worked as an Senior Systems Analyst / Software Engineer / R&D Engineer / with 5+ years of experience at IC Electricals Company (P) Limited, Hardwar

**Profile Summary**

* 3+ years of experience in developing software using VB10 & Microsoft Access / Web applications using HTML, CSS, Java Scripts, PHP, ASP & MS SQL.
* 1+ years of experience in developing Linux based software using Python & SQLite database .
* 2+ years of experience in developing Frontends using Visual Basic and Microsoft Access.
* Familiar with Linux operating system environment / Developed many applicatoins for Linux using Python.
* Ability to plan and prioritise workload efficiently and effectively.
* Strong Microsoft Office skills including MS Word, MS Excel & MS PowerPoint etc.
* Familiar with Photoshop, Corel Draw, Macromedia Flash
* Experience in project management by generating weekly report, client communications, team communications & client response.

**Total Experience (5+ years)**

**IC ELECTRICALS COMPANY PRIVATE LIMITED (HARIDWAR) March 2016 – Present**

***Company Profile:***

IC Electricals Company Private Limited has its vast expertise to market products and services in Indian Railway. The company in short span of time has successfully developed and got approvals from RDSO for many of Electronic Instrumentation & Power Electronics Based Products. The company has its corporate office in Delhi and Manufacturing Facilities with a State of Art R & D set up at Hardwar.

**ROLE: Research & Development Engineer, Software Developer**

**JOB RESPONSIBILITIES:**

* Working as an Systems Analyst & Software Engineer.
* Project Management by identifying project milestones, phases and ele.ments forming project team.
* Monitors project progress by tracking activity, resolving problems, publishing progress reports, recommending actions.
* Provides references for users by writing and maintaining user documentation, providing help desk support, training users.
* Contributes to team effort by accomplishing related results as needed.
* Ability to lead software developing team by providing software design guidance & engineering feedback.
* User manual, user training, administrator training, user support, documentation etc.

**LIST OF DEVELOPED PROJECTS:**

* Passenger Information System
* Fault Diagnostic & Control System
* Speed cum Energy Monitoring System
* Auto Engine Start Stop
* Vigilance Control Device

**MAJOR PROJECTS:**

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| --- | --- | --- | --- |
| **Project Title:** | ***Passenger Information System(PAPIS GPS BASED SYSTEM)*** | **Client:** | **Indian Railways** |
| **Project Location:** | Haridwar, India | **Duration:** | 12 Months |
| **Role:** | Software Developer, Web Developer | **Site:** | Onsite |
| **Skill Used:** | VB10, MS Access, MS SQL, HTML, CSS, Java Script, PHP | **Team Size:** | 4 |
| **Role Description:** | - Wi-Fi based software and Window application development to display information on a TFT based screen and also on web application.  - Python based software development for Linux operating system to display different type of information on a TFT based screen. |  |  |

**Project Details:**

The Passenger Information System is developed to intimate the passengers of Indian Railways about the next halting station and the distance remaining from the next station periodically. Along with this information slogans related to passengers safety and welcome/farewell messages are also displayed on the display boards on a periodic basis.

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| **Project Title:** | ***Fault Diagnostic & Control System*** | **Client:** | **Indian Railways** |
| **Project Location:** | Haridwar, India | **Duration:** | 14 Months |
| **Role:** | Web Developer, Software Developer | **Site:** | Onsite |
| **Skill Used:** | VB10, MS Access, MS SQL, HTML, CSS, Java Script, PHP | **Team Size:** | 7 |
| **Role Description:** | - VB10 based software development to display large amount of data of different type with print and ‘save as’ options.  - Web application development using HTML, CSS, Java Script MS SQL and PHP to manage and show various data with download and print options. |  |  |

**Project Details:**

The Fault Diagnostic & Control System is developed to analyze various parameters of locomotives and to control locomotive’s activities like DJ holding, run/stop loco, braking etc. This system also records faults and related parameters on internal memory and on Server for diagnostic purposes.

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| **Project Title:** | ***Speed cum Energy Monitoring System*** | **Client:** | **Indian Railways** |
| **Project Location:** | Haridwar, India | **Duration:** | 7 Months |
| **Role:** | Frontend Developer | **Site:** | Onsite |
| **Skill Used:** | VB10, Data Analysis | **Team Size:** | 4 |
| **Role Description:** | Frontend development to read and analyze various parameter of the system. This frontend generates Digital and Graphical reports train wise, driver wise and date wise. |  |  |

**Project Details:**

The Speed cum Energy Monitoring System is developed to show speed and energy parameters of Locomotives, to Loco pilot. These parameters are also stored in an external flash card for diagnostic purposes.

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| **Project Title:** | ***Auto Engine Start Stop/ Auxiliary Power Unit*** | **Client:** | **Indian Railways** |
| **Project Location:** | Haridwar, India | **Duration:** | 8 Months |
| **Role:** | Frontend Developer, Web Developer | **Site:** | Onsite |
| **Skill Used:** | VB6, MS Access, HTML, CSS, Java Script, PHP, | **Team Size:** | 5 |
| **Role Description:** | - Frontend development to read and analyze various parameter of the system. This frontend is developed on Visual Basic.  - Web application development to analyze locomotive’s parameters. |  |  |
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**Project Details:**

The system is used to stop locomotives for saving diesel in case of idling of locomotives. Loco parameters and system health parameters are recorded in internal memory and on server for diagnostic purposes.

**OTHER PROJECTS:**

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| **Project Title:** | ***Vigilance Control Device*** | **Client:** | **Indian Railways** |
| **Project Location:** | Haridwar, India | **Duration:** | 4 Months |
| **Role:** | Frontend Developer | **Site:** | Onsite |
| **Skill Used:** | VB6, MS Access, SQL | **Team Size:** | 3 |
| **Role Description:** | Frontend development to read and analyze various parameter of the system. This frontend is developed on Visual Basic. |  |  |

**Project Details:**

The Vigilance Control Device is developed to record actions performed by the Loco Pilot during journey. In case, Loco pilot does not perform any action for a period of time, then system stops the Loco for safety purposes.

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| **Project Title:** | ***Traction Motor Load Test Panel*** | **Client:** | **Self** |
| **Project Location:** | Haridwar, India | **Duration:** | 2 Months |
| **Role:** | Software Developer | **Site:** | Onsite |
| **Skill Used:** | VB6, MS Access, SQL, Serial Communication | **Team Size:** | 3 |
| **Role Description:** | Human Machine Interface development to perform Traction Motor Load testing. |  |  |

**Project Details:**

This test panel is developed to perform Traction motor load testing. There is a touch panel where all required actions are available in graphical form. Test engineer can start and stop tests can perform various actions using this panel during testing. Tests results are recorded in a database. Test reports can be generated and printed using this panel.

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| **Project Title:** | ***Field Report and Employee Attendance System*** | **Client:** | **Self** |
| **Project Location:** | Haridwar, India | **Duration:** | 2 Months |
| **Role:** | System Designing, Android Application Developer | **Site:** | Onsite |
| **Skill Used:** | Android Application Development, HTML, CSS, Java script, MySQL | **Team Size:** | 2 |
| **Role Description:** | Designing the complete system along with database scheme designing, Development of Server side application along with Android application. |  |  |

**Project Details:**

This application was developed for in-house use. This is basically a Field Report system with the functionality to fill up attendance from anywhere using Smart phone. A service engineer can fill up attendance and he can also submit field reports to his manager using his smart phone. The manager can remark and search / view / download the report anytime.

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| **Project Title:** | ***RDBMS System*** | **Client:** | **Self** |
| **Project Location:** | Haridwar, India | **Duration:** | 2 Months |
| **Role:** | System Designing, PHP Application Developer | **Site:** | Onsite |
| **Skill Used:** | PHP Application Development, HTML, CSS, Java script, MySQL | **Team Size:** | 2 |
| **Role Description:** | Designing the complete system along with database scheme designing, Development of Server side application along with micro-controller |  |  |

**Project Details:**

This application was developed for in-house use. This is basically use a real time data show on web application .

micro controller call on server side php api and save data on server side .

# Professional Qualification

BCA (Bachelor of Computer Application) from CCS University, Meerut : 2010

# Academic Qualification

Intermediate (12th) in Science from UP Board Allahabad : 2007

High School (10th) in Science from UP Board Allahabad : 2004

**Key Skills**

VB.Net, HTML, CSS, Java Script, ASP, PHP, Python, IoT Application Development, Android Application Development, Microsoft Access, MS SQL, VBA, Project Leading.

**Other Skills & Traits**

Technical Communication, Self Confidence, Willingness to learn, Creative Thinking, Positive Attitude

**Personal information**

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| --- | --- |
| Father’s Name: | **Mr. Ved Prakash** |
| Birth date: | **26 July 1989** |
| Nationality: | **Indian** |
| Marital Status: | **Married** |
| Language: | **Hindi, English** |
| Religion: | **Hindu** |

***I do hereby declare that all the information given above is true to the best of my knowledge and belief.***

Date: 21-01-2021 AVINASH KUMAR

Place:Haridwar **Signature**