# **ARIF HASSAN**

New-Delhi | +91 9631709139 | [aarifhassan05@gmail.com](mailto:aarifhassan05@gmail.com) <https://www.linkedin.com/in/aarifhassanmpu/>

**summery**

A highly motivated graduate, passionate about making new technologies and eager to learn new things, looking for opportunities in Embedded Systems and Robotics. Experience working with microcontrollers, sensors, firmware, and real-time operating systems with a good understanding of embedded software design to support IoT initiative applications. Good working knowledge in C, C++, Arduino-based Software Development, and Raspberry Pi applications.

**Education**

|  |  |
| --- | --- |
| **Madhyanchal Professional University** | **Bhopal, Madhya Pradesh** |
| *Bachelor Of Technology* | **Jun 2023** |

|  |  |
| --- | --- |
| **Rajkeshwar Roy Senior Secondary School** | **Chanpatia, Bihar** |
| *Senior Secondary School* | **Feb 2019** |

**Work Experience**

|  |  |
| --- | --- |
| **SERRAX TECHNOLOGIES LLP** | **Okhla, New-Delhi** |
| ***Embedded trainee*** | **Jan 2023 - Apr 2023** |

• Re-engineered STM microcontrollers, optimizing feature compatibility and specifications to enable smooth customer interactions with industrial sensors, leading to safety & accuracy improvements by 75%.

**Internship**

|  |  |
| --- | --- |
| **NATIONAL SMALL INDUSTRIES CORPORATION** | **Okhla Phase-II, New-Delhi** |
| ***Embedded System*** | **Jul 2022 - Dec 2023** |

• Developed embedded solutions using a range of Microcontrollers including AtMega, STM, and PIC, resulting in a 70% improvement in system performance.

• Implemented user-friendly software that was compatible with multiple IDEs such as Kile, STMCUDE, Visual Studio and Arduino IDE.

**project**

|  |  |
| --- | --- |
| **NATIONAL SMALL INDUSTRIES CORPORATION** | **Okhla Phase-II, New-Delhi** |
| ***Digital Range Meter and Split Leveller*** | **Nov 2022 - Dec 2022** |

• Successfully implemented quality control standards to ensure accuracy of ultrasonic distance measurements with 4% margin of error.

• Optimized Ultrasonic Sensor HC-SR04 & MPU6050 3 Axis Gyroscope Accelerometer for accurate distance and levelling measurements. Developed PCB using Protious, increasing accuracy by 8%.

|  |  |
| --- | --- |
| **SAMSUNG INNOVATION CAMPUS** | **New-Delhi** |
| ***IOT Based Alarm Clock*** | **Jan 2023 - Feb 2023** |

• Developed IOT based alarm clock with touch sensor & MP3 player to seamlessly capture user requirements and enhance user experience, boosting sales by 10%.

• Integrated NodeMCU ESP32/ESP8266, MP3 Player MicroSD Card, and Speaker components to create IOT based alarm clock with customized functionalities.

**Skills**

|  |  |
| --- | --- |
| **Hardware** | Atmel 8051, DSP STM32, PCB Schematic & Layout Design**.** |

|  |  |
| --- | --- |
| **Software** | Proteus, Keil, Arduino IDE, STM32CubeIDE, Microsoft Office (Excel, Word, PowerPoint) |

|  |  |
| --- | --- |
| **Programming** | C, C++, Embedded C, Visual Studio |

|  |  |
| --- | --- |
| **Operating Systems** | Windows, Linux, Git. |

**CERTIFICATES**

|  |  |
| --- | --- |
| Introduction To Internet Of Things(nptel) | C Porgramming / c++ |
| Advanced Diploma Program In Embedded Systems. | Time Management |

**LANGUAGE**

|  |  |
| --- | --- |
| **English**  *Professional working proficiency* | **Hindi**  *Native or bilingual proficiency* |
| **Urdu**  *Limited working proficiency* | **Bhojpuri**  *Native or bilingual proficiency* |