**Movva Sai Navya**

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# PROFESSIONAL SUMMARY:

Embedded Systems Engineer with 4 years and 10 months of experience in **designing, developing and testing firmware** solutions for various applications.Proficient in **C programming, system programming** concepts and embedded hardware design, with a string understanding of microcontroller and real-time systems. Conducted manual **testing and debugging** of embedded systems, ensuring adherence to project requirements and performance standards. Compiled and generated detailed report on test results, identifying issues and proposing solutions for optimization. Eager to contribute to innovative projects and expand expertise in embedded systems development.

# WORK EXPERIENCE:

**TATA CONSULTANCY SERVICES Nov 2021 - Present**

**Embedded Systems Engineer Hyderabad**

* Developed and maintained embedded software using **C programming language,** leveraging **system programming & RTOS** concepts such as **threads, synchronizing mechanisms, inter-process communication (IPC), and file systems**.
* Developed and implemented low-level firmware for **real time applications**, ensuring efficient hardware-software integration.
* Utilized **pointers, structures, and bit manipulation** to optimize memory and processing efficiency.
* Conducted **manual testing** and **debugging** based on system requirements and functional specifications, identifying defects and ensuring software met quality standard.
* Performed **code walkthroughs** by referring to **technical specifications, design documents, and hardware data sheets** to ensure alignment with system requirements.
* Designed and Implemented codes for simulators incorporating the **MIL-STD-1553** protocol for communication.
* Developed and debugged **UART, RS232-based communication protocols** to enable reliable data exchange between embedded systems and external hardware.
* Wrote **Matlab** scripts for system modelling, simulation and testing.

**TATA CONSULTANCY SERVICES Aug 2020 – Oct 2021**

**Motorola Solutions (IT Support) Hyderabad**

* Implemented and maintained the **Service Now** platform to meet specific business needs to support ITIL and business processes.
* Managed **On-boarding and Off-boarding** of employees.
* Created patches and solutions to **fix bugs** in applications.
* **Set up and configured new PCs** by installing and configuring **operating systems**, applications, and network settings, ensuring compatibility with company policies and security standards.
* Troubleshot and resolved **network issues**, ensuring seamless connectivity and minimizing downtime for end-users and business-critical applications.

KEY SKILLS:

**Programming Languages & Development:** C programming, system programming, IPC, Free RTOS.

**Embedded Systems & Hardware:** Renesas/RL78 Microcontroller Programming, GDB Debugger

DDC Card Manager.

**Tools:** Visual Studio, Dev C++ and code blocks.

**Serial** **Communication Protocols:** MIL-STD-1553, UART, RS232.

**Simulation & Tools:** Simulator design and Matlab.

# ACADEMIC DETAILS:

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| --- | --- | --- | --- |
| Qualification | Name Of Institution | Year | CGPA |
| Bachelor of Technology  (ECE) | KL University | 2016-2020 | 8.99 |
| Intermediate  (M.P.C) | Sri Chaitanya Junior College | 2014-2016 | 94.1 |
| S.S.C | St. John’s English Medium School | 2013-2014 | 9.7 |

# PERSONAL DETAILS:

Date of Birth : 05th July 1998.

Guardians : Sankara Rao & Padmaja.

Nationality : Indian

Languages Known : English, Telugu & Hindi.

Hobbies : Singing.

# DECLARATION:

I do hereby declare the above furnished information is true to the best of my knowledge.