

SHASHIDHAR REDDY GAVVA

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PROFILE SUMMARY:

- Having 2 years of experience in the field of Embedded Systems Engineering.
- Strong knowledge of Embedded C and C programming language.
- Experience in working with 32-bit micro-controllers and ARM processor.
- Experience in working with 8-bit micro-controllers like Arduino series boards like Arduino uno and nano
- Good knowledge of SDLC and PDLC Phases.
- Hands-on Experience with UART, I2C, SPI and ADC protocols.
- Exposure to the Agile Methodology & ASPICE.
- Experience in feature development and bug fixing.
- Experienced in version control systems like Tortoise SVN, GitHub.
- Excellent knowledge in embedded software development environments and tools including IDE, editors, compilers, linkers, emulators, debuggers etc.
- Hands on Experience on STM32G and STM32F Series development Boards and Arduino Boards.
- Strong problem-solving skills.
- Excellent communication, presentation and analytical skills.

PROFESSIONAL EXPERIENCE:

Embedded Software Engineer	United Wireless Technologies Pvt Ltd (June 2023-Till Now)
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TECHNICAL SKILLS:

Languages	C & Embedded C programming
Operating System	Windows, RTOS
IDE	Visual Studio, STM32CubeIDE, STM32CubeMX, Nexiton Editor, Arduino IDE
Compiler	GNU C compiler, GCC compiler
Protocols	I2C, UART, SPI, CAN, ADC
SW Development Process	V-Cycle, Agile and ASPICE
Tools	Tortoise SVN, JIRA, Beyond Compare, GitHub, Azure Devops, Tera Term, Putty

EXPERIENCE:

United Wireless Technologies Pvt Ltd: Embedded Software Engineer

June 2023 -Till Now

- Hands on experience in Embedded C and C Programming.
- Worked on 8-bit micro-controllers like Arduino uno and nano.
- Experience in working with 32-bit micro-controllers and ARM processor.
- Working knowledge on schematics, BOM, in-depth understanding of data sheets for micro controllers.
- Implementing the sensors interfacing with micro-controllers using communication protocols like I2C, UART and SPI.
- Having a hands-on experience in the STM32 micro-controller.
- Having a hands-on experience in Configuring and generating the source code using STM32CubeIDE and STM32CubeMX.
- Hands-on Experience in Flashing, Debugging and Testing the Software and Hardware.
- Have a good experience in developing the code, test and debugging them.
- Strong ability to troubleshooting the critical bugs and worked on seamless integration.
- Contributing ideas for innovation and regularly improving myself.
- Able to work alone and in groups to complete tasks.
- Active participation in sending daily, weekly and monthly status reports to the higher officials.

PROJECT NO-1: Burn Rate Measurement

ROLES AND RESPONSIBILITY:

- Gathering and understanding the requirements from Customer.
- Configuring and generating the source files as per requirements using STM32CubeIDE and STM32CubeMX.
- In-depth understanding on product data sheets, user manuals and specifications pdfs.
- Performing code review with the subject matter experts.
- Flashing, Debugging and Testing the software and Hardware
- Integrating the Generated Source files with project files using Version control System like Git
- Involved in Testing and Deployment of the project.
- Preparing the System Design Document and Testing Documents.

TOOLS USED:STM32CubeIDE, STM32CubeMX, Tera Term, Putty, Git, VS Code.

PROJECT NO-2: Dosing Pump and Specific Gravity Control

ROLES AND RESPONSIBILITY:

- Understanding of the requirements provided from customer.
- Preparing the requirements query list.
- Configuring and generating the source files as per requirements using STM32CubeIDE and STM32CubeMX.
- Analysing the tool validation errors and resolving them.
- After resolving the tool validation errors, generating the sources.
- Merging of the sources to the project files.
- Checking the compilation errors and adapting solution to resolve the errors.
- Preparing the System Design Documents and test reports.

TOOLS USED: STM32CubeIDE, STM32CubeMX, Tera Term, Putty, Git, VS Code.

EDUCATIONAL DETAILS:

- Completed Bachelor of Technology in Electronics and Communication engineering from Sreyas Institute of Engineering and Technology, Hyderabad in 2022 with an aggregate of 69.9%
- Completed Intermediate from Gouthami Junior College, Nalgonda in 2018 with an aggregate of 96%.
- Completed SSC from Aditya Concept High School, Miryalaguda in 2016 with an aggregate of 85%.

PERSONAL PROFILE:

- Date of Birth : 21-03-2001
- Father's name : Niranjan Reddy
- Marital Status : Single
- Languages Known : English, Telugu
- Nationality : Indian

DECLARATION:

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