

POSITION DESCRIPTION

Position: *Software Tools Engineer*

Created: *01/25/2021*

Responsibility Level:

The Volta Software Tools Engineering position is responsible to develop, integrate, test, and maintain software tools used to interface, test and validate VPS Energy Storage systems, subsystems and components. These responsibilities cover all Volta created components as well as vendor purchased components. The position reports to the Director of Engineering.

Typical Duties:

1. Develop code used to interface with the Volta BMS system and subsystems.
2. Develop and maintain software components for systems in C, C++, Python, CAPL or other.
3. Design and implement software tools from requirements analysis through production and commercial deployment.
4. Develop documentation including SW requirements architecture and design.
5. Work closely with other engineering teams to ensure system functional and interface requirements are met.
6. Actively participate in design and code reviews
7. Interact with partners and suppliers in technical discussions throughout the development and deployment phases.
8. Conduct all work activities following company safety policies and procedures.
9. Perform other duties as assigned by Supervisor.

Position Requirements:

1. B.S. EE/CE or equivalent training
2. Prefer 2 to 4 years of experience in the field of software tools development in C, C++, and Python including design and testing.
3. Experience with CAN tools such as Vector CANalyzer, or other equivalents
4. Experience with other communications protocols such as J1939, RV-C, NMEA, SPI, 1²C and UART
5. System level expertise in Battery, Battery Management Systems desired
6. Experience with version management in Git/Github/Bitbucket
7. Experience with Jira and Agile Software Development is desired
8. Ability to work independently and provide mentoring to more junior software engineers.
9. Maintain software for existing designs, document changes, bench/vehicle testing.
10. Understanding basic circuit operation from schematics
11. Windows.NET based testing systems.

Working Conditions:

This position is located in a single shift production facility. The position may require work with potentially hazardous products in a controlled, safe environment.