V2X Software Developer Engineer

WHO WE ARE LOOKING FOR:

The V2X Embedded Software Developer creates software which runs on a custom embedded electronics platform.  This software enables Agricultural and Construction vehicles to send/receive data to an off-board application. The developer must have the ability to develop efficient software code based on written requirements.

YOUR KEY RESPONSIBILITIES:

The main responsibilities of the V2X Embedded Software Developer are:  
1. Provide suggestions and strategies for architectural based solutions and completing deep-dive root cause analysis for issues experienced in testing and in the field  
2. Contributing in the team in the creation of work breakdowns and estimates for directed tasks contributing in an Agile framework  
3. Developing Connectivity solutions for Ag & CE machines such as Data Sharing, Remote Access, Vehicle-to-Vehicle and Vehicle-to-Anything.  
4. Use Vector CANALYZER tool to monitor data on machine and confirm data is properly collected in the cloud applications.    
5. Development of Qt applications using C++  
6. Unit Testing and pre-integration performance checking of all software  
7. Software Integration functional testing and performance verification  
8. Use of software development tools for version control, review and continuous integration while completing necessary documentation during the design and release software phases

YOUR KEY COMPETENCES AND QUALIFICATIONS:

1. Bachelor’s or Master’s degree in Computer Engineering, Electrical Engineering or Software Engineering  
2. Minimum 5 years of professional C++ software development experience on Embedded Systems , ideally in an automotive or off-road industry

Preferred Qualifications:

1. understanding of Qt and Linux operating system architecture
2. Familiar using open-source development tools such as Git (version control), Gerrit (code reviews) and Jenkins (Continuous Integration
3. CAN (Controller Area Network), SAE J1939 communications experience
4. Familiarity with TCP/IP networking protocols and sockets programming
5. Familiar using V-Model and/or Agile (e.g. Scrum) software development processes  
   9. Experience working with Automotive, Agricultural, Construction or Commercial Vehicle products