To Apply for This Position:

Create an email with subject title “Telematics Core System Engineer”, email a copy of your resume to jessica@princetechnology.com

Location: 536 - Fairlane Business Park II (FBPII)

Location: ALLEN PARK,MI,48101

Position Description:

TITLE: The Telematics Core - System Engineer Would be responsible for the development and integration of TCU (Telematics Control Unit) which serves as a primary connectivity channel between the vehicle and outside world in Ford’s newer electrical architecture. The engineer would work closely with the rest of the Ford electronics development team, as well as with various feature owners throughout Ford, to develop requirements and support design, validation, and launch of new hardware and features. TCU Core- System Engineer will also be involved in interfacing with other connectivity groups within the company & Tier1 supplier to deploy connectivity solutions in different regions of the world. • Help define and develop next generations of Ford Motor Company’s telematics features in alignment with technology growth and future trends • Lead the overall development, validation, and launch of the Telematics Control Unit and its features. Responsible for the overall core delivery of the TCU. • Work with internal feature owners, such as Connected Vehicles & Services, Research & Advanced Engineering, Security, IT, and others, to develop new features and functions for the TCU. Assist with requirements and test method development. • Maintain TCU system specification and develop system level test procedures, execute system tests as required to support lead program launch. • Support core development activities for TCU including module level specification development, failure mode avoidance (FMA) activities, hardware and software reviews, WCCA, and design validation planning and reporting. • Fully understand connected vehicle & module architecture capabilities & limitations and develop plans for successful feature implementation and launch • Manage interface with vehicle teams, planning, marketing, and other groups within Ford.

Skills Required:

• Understand the performance requirements for the TCU. Establish feature objectives and work collaboratively with the features owners and others to ensure system operation to meet the objectives through structured component, sub-system, and system level test methodologies. Work with cross-functional team to analyze and resolve system issues. • Oversee/Sign off KPIs for different capabilities and features. • Help define in vehicle message strategy, message flows & structure among different modules. • Manage development schedules, change requests / evaluations, and overall risks • Develop and maintain technology migration plan for TCU. • Develop and maintain TCU cost roadmap • Help identify resources needed to deliver new features. • Quantify feature release quality by evaluating projected software defect rate, number of open defects, etc. • Work with strategic partners, government regulatory organizations, cellular carriers, technology alliances etc. in the planning of certification tasks • Work with cross-functional team to help define migration plan for different connectivity solutions globally. • Manage deployment of multiple connectivity solutions in multiple regions by working with cross-functional Ford teams

Experience Required:

• 3+ years of automotive electronics experience. • 2+ year’s knowledge of Vehicle CAN / Ethernet networking and communication. • 2+ years of experience writing vehicle, system, feature or component specifications • 1+ years of demonstrated experience with program management and supplier management capabilities

Experience Preferred:

• Experience in automotive infotainment and telematics systems or automotive connectivity solutions such as Wi-Fi, Cellular, Bluetooth, or vehicle networking is desired. • Detailed knowledge of CAN, AUTOSAR, diagnostics, and CAN gateway strategies • Demonstrated experience with Ethernet networking applications • Experience with Vector Informatik tool chains (Candb++Amin, GENy/CANGen/FNOS, CANoe) • Good knowledge of 3GPP/3GPP2 standards • General understanding of CAN and OTA update mechanism and related security requirements • Demonstrated experience developing and conducting laboratory and vehicle tests • Demonstrated experience with data collection from and analysis of vehicle networks and systems. • General understanding of Vehicle Cyber Security protocols and concepts • General understanding of vehicle to cloud connectivity: APN, VPN, TCP/IP stack, etc. with associated security elements like SSL, message level encryption, code signing, etc. • General understanding of in-vehicle HMI requirements related to connected vehicle features • Design and Release experience in automotive electronic module development • Strong project and requirement management skills • Comfortable working in a fast-paced environment and with cross functional global teams • Working knowledge of Agile software development processes (e.g. Scrum, Kanban, etc.) • Independent worker and capable of delivering multiple project commitments concurrently • Broad interpersonal skills allowing a wide range of interface with vehicle product development / subsystem engineers and cross-functional teams (planning, marketing, IT, etc.) and suppliers

Education Required:

• Bachelor of Science Degree in Engineering (Electrical, Computer Engineering, Computer Science, Mechanical with Electronic background)

Education Preferred:

• Master of Science Degree in Engineering (Electrical, Computer Engineering, Computer Science, Mechanical with Electronic background)

Additional Information:

Web Based Assessment not required for this position. Visa Sponsorship and Domestic Relocation is available for this position. Travel cost for an in person interview may be covered. Salary Range 6-8 $61,140- $134,880 Position Location: Fairlane Business Park II Requisition: 30221BR