

GOUTHAM TAMILSELVAN

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WORK EXPERIENCE

Architect IOT Development

Ford Motor Company (DMI Inc)

Aug 2020 - Present

Dearborn, Michigan

- Define requirements for next generation vehicle framework, to run ML based applications efficiently.
- Build prototypes, proof of concept/value for strategic opportunities using leading edge technologies
- Review designs and artifacts created by multiple architects in consideration of the overall strategy
- Prototype and help define requirements for personalized ML applications.
- Participate in creating internal wikis to document the findings and lessons learned.
- Ability to prototype applications both in-vehicle and in the cloud.
- Support in interviewing/screening candidates, for positions within the company.

Connected Vehicle Architect

Fiat Chrysler Automotive (now Stellantis) (Kyyba Inc)

Nov 2016 - Aug 2020

Auburn Hills, Michigan

- Ensure connected application requirements are included in the security and app framework specifications.
- Support performance analysis on multiple platforms by monitoring and diagnosing app performance.
- Support requirements, design, and development of connected in-vehicle applications.
- Support building requirements for vendors across vehicle architectures and H/W platforms
- Design and integrate MQTT clients inside different ECU's that are connected to the internet.
- Participate in defect resolution/ triage across multiple vehicle architectures and H/W platforms
- Working with engineers and leads to ensuring development process adherence.
- Ability to prototype new features and functionalities before defining requirements

Programmer Analyst

Visteon Electronics (Wipro Technologies)

Dec 2014 - Nov 2016

VanBuren Township, Michigan

- Responsible for design and delivery for USB/iPod Music enhancement project.
- Maintain the robustness of design across 5 different Head Units.
- Create project plans with proper estimates and deliverable timelines.
- Validate, verify, and generate delta update packages for production builds.
- Integrate CAN drivers required for R8C/32 + R2A11210 chipset.
- Support OEM in their Joint Integration events and Test drives.
- Migrate of Source code from PVCS to RTC SCM system and its integration with Jenkins Build system.

Senior Software Engineer

Visteon Electronics (Wipro Technologies)

Feb 2010 - Dec 2014

Bangalore, India

- Develop prototype to demonstrate the feasibility of the USB/iPod Enhancement project.
- Optimize the music metadata extraction flow and time to start audio.
- Resolve issues to receive Apple MiFi certification for the product.
- Develop file browsing and play control logic for USB/iPod music play applications.
- Develop and maintain Paring / connection management application and Calling application.
- Develop Command and control logic for Bluetooth music application.

CERTIFICATIONS

Google Cloud Certified - [Professional Cloud Architect](#)

valid till - July 2024

SKILLS

- Vehicle Communication: CAN, CAN FD, LIN, IE-Bus, Ethernet
- Programming Languages: C, Python, JavaScript, HTML, CSS, Rust
- Other Tools: QNX Momentics IDE, ATS apple log analyzer, Qualcomm QXDM
- Application Frameworks: Adaptive Autosar, Android Automotive, Legato (Sierra Modem), JamaicaVM (AICAS)

EDUCATION

Anna University (Kongu Engineering College)

B.E Computer Science and Engineering

Aug 2005 - Apr 2009