Bodhiswattwa Mojumder

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# Skills

C Programming, Embedded C, MATLAB, State flow & Simulink, Polyspace, AUTOSAR, Model Based Development, MS – Office, GitHub, MIL Testing, Panel Testing, DBMS, Data Science, Python, SQL, Prompt Engineering (Chat-GPT)

# Summary

Detail-oriented Embedded Engineer with extensive experience in AUTOSAR, CAN, RTE configuration, and Stateflow Simulink Model-Based Development. Proficient in C language and equipped with a strong background in embedded systems. My goal is to leverage my expertise in automotive protocols and real-time software development to spearhead technological advancements while embracing opportunities for learning new technologies and applications. I am driven to contribute to the creation of efficient and resilient software solutions for embedded systems in a collaborative team setting.

# Work Experience

**Tata Consultancy Services**

**Senior Embedded Software Developer November,21 – Till now**

Project Title: FORD BODY MODULE (Driver Seat Module)

Power seat is the front driver and/or Passenger seat of car which can be adjusted with motors. To make the seat more comfortable, it can be adjusted by different seat movements. This feature has switches to control the movement of the driver’s seat in up to ten possible directions. On receiving request from switch movement command is generated to move the seat in particular direction.

Tools Used: MATLAB (R2016b, R2018b, R2020b, R2021b), Polyspace, JIRA, GitHub, Visual Studio, SharePoint.  
  
Role & Responsibilities:

* Learned basics of Model Based Design in MATLAB with State flow & Simulink. Developing unit models as per functional specification.
* AUTOSAR Port-Interface Validation.
* Experience in Application Layer development and integration with RTE validation.
* Mark-Up Analysis and Feature Documentation Preparation.
* Performing unit model testing And Functional Testing using Panel & MIL testing.
* Work under the V-Cycle model process using MATLAB (Simulink, State Flow) - R2016b, R2018b, R2020b, and R2021b.
* Reviewing the developed Unit models and test cases comply with the functional specification.
* Drafting various Delivery Documents required for the project Release.
* Worked on porting C software to MATLAB Models and then auto code generation using MATLAB.
* Functionality- wise code analysis on Visual Studio.
* Drafted various artifacts using GitHub and reviewed repository status in Network Diagrams.
* Polyspace Analysis for bug finder report generation & validation for embedded codes as per MISRA.

# Projects

**Movie Recommendation System** 2020

Designed and developed a Movie Recommendation System leveraging collaborative filtering techniques and machine learning algorithms. Utilized Python and its libraries for implementation, with data sourced from public datasets and web scraping. Achieved a significant increase in user engagement and recommendation accuracy, leading to a measurable positive impact on user satisfaction and content consumption.

# Education

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| --- | --- | --- |
| 2017 - 2021 | Bachelor’s in Computer Science & Engineering at **MCKV Institute of Engineering** | (DGPA: 7.22/10.0) |
| 2017 | Class 12th WBCHSE Board | (85.6%) |
| 2015 | Class 10th WBBSE Board | (83.28%) |

# Language

* English
* Hindi
* Bengali