**Gowtham Ramarajan**

No.13a, 1st Street Ganapathipuram, Pallikaranai • Chennai, Tamil Nadu

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[LinkedIn](https://www.linkedin.com/in/gowtham-ramarajan-ba2072125/) • [GitHub](https://github.com/GowthamRam96)

**SUMMARY**

Professional HIL Systems level ECUs Modeling and Automation Tools developer. Involved in Model based development with HIL Validation, System Rig debugging and Process Automation.

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**EXPERIENCE | 3+ YEARS**

***FCA Engineering India Private limited Chennai, Tamil Nadu***

**EE & SW Engineer | GET | Intern** Feb 2018 – Apr 2021

***FCA Engineering India Private limited Chennai, Tamil Nadu***

**Engineer – ADAS – HIL** May 2018 – Present

**WORK SUMMARY**

* **Developed Utility Tool** for Virtual Test Platform Generation of Powertrain **Hybrid Motor Control Processor**.
* **Assisted** BSW Files Compilations and debugging in GPIO, CAN, ADC, Digital & PWM Systems.
* **Defined Timeline and Workflow** for CAN Data validation in Virtual Test Platform OSA Projects.
* Worked in **Test Suite Development scripting** for Power Train HIL **Model Verification** using PROVETECH - TA**.**
* Worked as a team member for Proof of Concept on **Active Chassis System Bench** development with ASM and HIL System **Model Integration** for Real Time Brake **Testing** within short span of time.
* **Improvised Legacy Processes** in file handling and New NM Panel creation with code generation task using Python.
* **Model Based development** and **RTI Configurations** **testing** for HIL System Testing which incorporates ECU – Power Relays Sensors | Actuators | Network Management | Rest Bus Simulation of CAN and LIN | In Plant Logics.
* Developed **Framework Dashboard** and **Interface Sheet** using Vehicle Architecture, Device Transmittal, Signal List, IOList, Hardware Interface Specs, Performance Standards, DBCs & LDFs, Fuse Tree, Vehicle Functionalities.
* **UI\_Panel Development** using Python and **Functionality Validation** for Brake Systems | Indication Strategies | Switch Modules | Diagnostic – Maturation and De-Maturation Testing.
* 3D CAD Model Design Verification using UG-NX for **Headliner**, **Dashboard Console** and **Body Electronics** Harnesses.
* **Test Case development**, **Validation** and **Report Generation** of Instrument Clusters using Vector CANoe | Congex**.**

**EDUCATION**

* PSG Institute of Technology Applied Research•Bachelor of Electrical and Electronics Engineering **(CGPA:8.00/10.00)**
* Bharatiya Vidhya Bhavan Matriculation Higher Secondary School • HSC **(Score 95%)** • SSLC **(Score 93%)**

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**EXPOSURE**

* Hardware Setup Schematics Development | PIM & GPEC Controllers | HIL PowerTrain Modeling | Flashing ECU | ConfigurationDesk | SCALEXIO | RENESAS R8C2527 | AUTOSAR | StateFlow | Altia | AutomationDesk | QGIS | DFSS

**SOFTWARE & TOOLS**

* **dSPACE Products** -ControlDesk | ModelDesk | MotionDesk | VEOS | SystemDesk | BusManager
* **General** – MATLAB | DET | JIRA | PyWin | Visual Studio | Provetech-TA | UG-NX | Workbench | SWCompositor | CANoe | CDA | CarMaker

**ADDITIONAL SKILLS**

* Event Management, Requirement Writing, Public Relations and Asset Tracking.
* Languages known: English, Tamil and Telugu.
* **Office Tools** - MS Office | G-SUITE | IBM Lotus Notes | ATHENA | GALILEO | VSEM
* **Protocols** – CAN | LIN | SPI | MODBUS | UART
* **Programming** – MATLAB – M-Scripting | Python | Embedded C | WWB-COM(Basic) | Assembly language

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**HOBBIES**

* Travelling | Sports | Share Market Tipping

**CERTIFICATIONS & HONORS**

[Achievements](https://github.com/Gowthamram983/CareerProgress/tree/main/Progress/Certifcates%20and%20Exercise%20files) • [Competitive Programmer](http://www.hackerearth.com/@rgowthamgauti)

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