

SHIVASHANKAR CHIDAMBARAM

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Automotive Electronics Engineer Specializing in vehicle dynamics software development and Hardware-in-Loop (HIL) simulation. Adept at designing and developing automotive braking systems, with a strong foundation in automotive electronics and software development. Excellent communicator and team player with a proven ability to work effectively in cross-functional teams.

EDUCATION

- Master of Technology in Automotive Electronics**
Vellore Institute of Technology | 06/2018 – 05/2020
| CGPA: 8.99
- Bachelor of Technology in Electronics and Instrumentation Engineering**
Vellore Institute of Technology | 06/2014 – 05/2018 | CGPA: 7.77

PROFESSIONAL EXPERIENCE

- Continental AG India**
Technical Specialist | Nov 2022 – Present |
Developed HIL-Environment for Hydraulic Brake System function testing.
- Bosch Engineering and Business Solutions**
Engineer | Jan 2021 – Oct 2022 | Developed application software (ASW) for Hydraulic Brake System functions for JOEM customer projects.
- Continental AG India (Payroll: ManpowerGroup)**
HIL Simulation Engineer | Jun 2019 – Dec 2020 | Developed HIL models for Hydraulic Brake System function testing.
- Greytip Software Pvt. Ltd.**
Inside Sales Executive | Mar 2017 – May 2018 | Marketed and implemented payroll software solutions.

PROJECTS

- ESP Function Development @ Bosch**
Developed model-based algorithms for Vehicle Dynamics Control (VDC), Torque Vectoring, and PATA (Off-Road) functions using ASCET as an AUTOSAR Application Software (ASW) developer for a JOEM customer team.
- IPG Carmaker & Vector HIL Model @ Continental**
Currently developing vehicle models and rest bus simulations using Embedded C and Simulink FMU models for brake function and endurance testing, including ABS, TCS, AYC, and other related systems.
- Motorcycle ABS Simulation @ Continental**
Developed a HIL Simulator for single-channel ABS electro-hydraulic brake-ECU's and control function testing.
- Software Implementation @ Greytip Software**
Implemented and provided post-sales software implementation support for payroll software.

SKILLS AND LANGUAGES

- Technical Skills:** Automotive Electronics, Software Development, Embedded C, HIL Simulation, Automotive Communication Protocols.
- Software Proficiency:** ASCET, MATLAB/Simulink, CANoe, Keil, Code Composer Studio, NI LabVIEW, SolidWorks, NI Multisim, Proteus.
- Programming Languages:** Embedded C, Python 3.0, ASCET (ESDL),
- Microcontrollers:** 8051, PIC 16F877A, Raspberry Pi, HCS12, LPC2148, Arduino, TMS320F28379D.
- Communication Protocols:** SPI, I2C, UART, LIN, CAN, Flex-Ray.
- English:** Full Professional Proficiency
- Tamil:** Full Professional Proficiency
- Kannada:** Full Professional Proficiency
- Telugu:** Elementary Proficiency
- German:** Elementary Proficiency
- Spanish:** Elementary Proficiency