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.

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| 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. |

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| 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 | |

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| * **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 |