Gowthaman Thambusamy
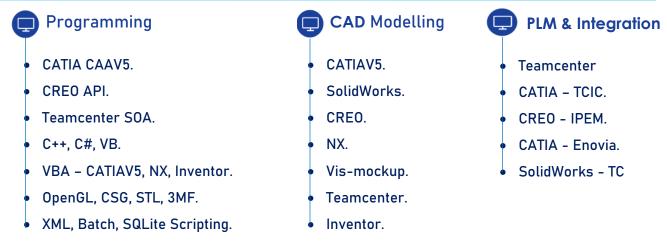MECHANICAL ENGINEER

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✉ tggowtham@gmail.com

Around 11 years of progressive experience in Product Design, Development Engineering including Eight years of experience in the field of CAD Customization. A highly efficient, hardworking and talented engineer with a comprehensive understanding of design processes and manufacturing methods. CAD Customization/Automation using Application Programming Interface (API) which involves programming in VB, C#, C++.

Skills

Programming

- CATIA CAAV5.
- CREO API.
- Teamcenter SOA.
- C++, C#, VB.
- VBA – CATIAV5, NX, Inventor.
- OpenGL, CSG, STL, 3MF.
- XML, Batch, SQLite Scripting.

CAD Modelling

- CATIAV5.
- SolidWorks.
- CREO.
- NX.
- Vis-mockup.
- Teamcenter.
- Inventor.

PLM & Integration

- Teamcenter
- CATIA – TCIC.
- CREO - IPEM.
- CATIA - Enovia.
- SolidWorks - TC

Technical Lead | Wipro Limited | MAR 2021 – Present

- Developing Knowledge Based Engineering (KBE) solutions which includes Customization, Automation for Engineering – Domain using CREO, SolidWorks API, NX Open.
  Projects: 3D Printing Model Viewer, NX-Checkmate, NX-Model & Drawing Update, NX-Attribute Tool.

Deputy Manager | Mahindra & Mahindra Limited, Chennai | JUN 2016 – MAR 2021

- Developing Knowledge Based Engineering (KBE) solutions which includes Customization, Automation across engineering domains such as Vehicle Architecture, Styling, BIW, Trims, Lighting, Power Train, Chassis, Truck Cargo-Body, Digital Manufacturing using CATIA CAAV5, CATVBA, CATScript & Excel VBA.

- Leading a team of developers on implementation customization/Automation projects across different domains and sites

- Project Lead for CATIAV5 R24 to R27 & CATIAV5 R27 to R29 migration activity.

- VB Projects: Drafting Automation, Clash Analysis, Material Library, Side Door Automation, Glass Curvature Analysis, PLM Integration Tool, Vehicle CG Calculator, Migration Scripts, etc.,

- CAA Projects: Feature Identification, Wiper Attack Angle Analysis, Wheel Envelope Creation, Exporting Dimension & Symbols, Cargo Body Configurator, etc.,

Senior Automation Engineer | Ford Motor Company, Chennai | DEC 2014 – JUN 2016

(Deputation: Geometric Limited [DEC 14 - SEP 15] | Satyam Venture Engg [SEP 15 –JUN 16])

- Developing design automation for BIW – Dimensional Engineering activities such as Creation, Quality and Report generation using CATVBA, CATScript, Excel VBA.
- VB Macro: Locator and CMM Point Creation, Quality Checker Tool, etc.,

Design Engineer | Baker Hughes, Chennai | JUL 2013 – DEC2014

(Deputation: WTI Advanced Technology Limited, Chennai)

- Creation of Parts, Assembly and Drawings from existing 2D drawings using SolidWorks & NX.
- Performing Quality checks on Part, Assembly & Drawings as customer requirements.
- VB Macro: Product Configuration, Removing Title Block Duplicates, Default Chamfer & Radius Creation.

Graduate Apprentice Trainee | ISRO, Sriharikota | MAR 2012 – MAR 2013

- Designing Piping isometrics, Piping stress analysis report generation and maintenance of Liquid Hydrogen Filling System.
- VB Macro: Developed Pressure Drop Calculator for cryogenic piping systems.

Internship | MTAB Engg Private Limited, Chennai | MAY 2011 – MAR 2012

- Designing CNC Machine parts as per customer requirement using SolidWorks.
- Responsible for shop floor machine operations and maintenance activities.

Education

- B.E-Mechanical Engineering with 77.6%, Sri Krishna College of Engg & Tech, Coimbatore (2011).
- State Board Higher Secondary Education (HSE) with 75.5%, ARK HSS, Trichy (2007).
- State Board Secondary School (SSLC) with 63%, Boiler Plant Boy's HSS, Trichy (2005)

Personal Information

Father's Name	: P Thambusamy
Mother's Name	: T Gowri
Date of Birth	: 12 Aug 1989
Sex	: Male
Languages Known	: English, Tamil.
Passport Number	: K1669974