MANIKANDAN M

📞 +91 9003694325 - ✉ manikandanmuthukumarkkdi@gmail.com
🌐 https://www.linkedin.com/in/manikandan-muthukumar-44182a203 - 📍 Chennai

CAD AUTOMATION ENGINEER

I am a proficient CAD Automation and Customization Engineer with a one-year experience and strong focus on achieving outcomes, Strong Design and Integrated capabilities as well as problem Solving abilities. I have a proven track record of enhancing team performance, fostering customer loyalty, and cultivating collaborative alliances with internal and external stakeholders. Seeking a challenging role where I can leverage my expertise in CAD Automation to drive organizational success.

STRENGTHS AND EXPERTISE

- C#
- ASP.NET
- JAVA
- LISP
- SQL
- REST,SOAP API
- WPF (MVC and MVVM) and Windows Forms
- Autodesk API (AutoCAD,INVENTOR,VAULT)
- Power BI
- iLogic
- HTML & CSS
- JavaScript

PROFESSIONAL EXPERIENCE 💼

Evoqua Water Technologies   **February 2023 - Present**
CAD Automation Engineer

Developed Custom CAD plugins and Standalone applications using Autodesk API like AutoCAD, Inventor and Vault. Designed and Developed the User Interface forms using WPF (MVVM & MVC) and Windows forms. Developed the product configurator using Inventor iLogic and parameters. Automates the design process to help the Design Engineers.

Accomplishments:

- Got **Special Mention Award** (2022-2023) for dedicated efforts and contributions in Design Automation Projects.
- Developed and managed the AutoCAD Addin Tool specifically designed for electrical engineers (Standard Piping and Instrumentation Diagrams).
- Automate the process of downloading Drawing files from Autodesk Vault using Vault Webservices API.
- Automating the Pipe Design calculations using AutoCAD API.
- Developed the Power BI Dashboard using Python scripts which assists truck driver in locating the nearest chemical storage tank.
- Automated the tool for identifying duplicate tags in AutoCAD Piping Diagrams, resulting in a time savings of 1200 minutes per user per year.
- Developed the User Interface using HTML, CSS & JavaScript for simple design calculation.
- Automated the Microsoft Word Document for replacing words in multiple documents using Microsoft word API.
- Automated the Microsoft Excel for sales calculations using Microsoft excel API.
- Developed the LISP program for AutoCAD Automation.
- Developed the Product Configurator using Inventor Model Parameter.

Cognizant
Intern

<div align="right">**September 2022 -February 2023**</div>

Created and Executed Automation test Script using Selenium WebDriver, Java and TestNG. Associated with three projects and tested the Webpage, Web API using Selenium Java

Accomplishments:

- Developed Test Scenario and Test Cases for testing the Web page. Created Automation Scripts using Java, TestNG Framework.
- Conducted testing on the Web API, captured the responses in an Excel file, and generated the test report.
- Hands on Experience in crafting test cases.
- Executed the test scripts, ensuring that the same set of tests is performed in the same manner every time.

ACHIEVEMENTS 🏆

National Level Solar Vehicle Competition

<div align="right">**March 2020**</div>

Overall Runner-up for Constructing of Electric Vehicle with Solar and Battery source. Created and Developed the metric, Design Analysis and Design Validation reports.

EDUCATION 🎓

Saranathan College of Engineering , Tiruchirappalli   **2018-2022**

Bachelor of Engineering in Mechanical Engineering with 8.9 CGPA

Muthiah Alagappa Matriculation Higher Secondary School , Kottaiyur   **2017-2018**

Higher Secondary Education in Computer Science with 89 %

DECLARATION

I hereby declare that the information provided above is true and accurate to the best of my knowledge. I understand that any misrepresentation may lead to disqualification from consideration for employment.