

# Suhail Pallath Sulaiman

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Portfolio: <https://suhailpallathsulaiman.github.io>

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## EDUCATION

### Northwestern University, Evanston — MS Robotics

Graduation - December 2018

### Mahatma Gandhi University, Kottayam — BTech Mechanical

Graduation - August 2014

## EXPERIENCE

### Infosys Technologies Ltd, Mysore, India — Senior Systems Engineer

November 2014 - August 2017

Developed several applications using mainly C++ and C#. Involved leading teams, meeting milestones, interacting with clients, testing and documentation.

## PROJECTS

### Catia Customised API Library — Client: BOEING

- Created a library of customized APIs for CATIA V5 so as to automate several designing tasks used for designing aircraft parts.
- Used C++, C#, CAA, WinForms, Catia V5

### Hatching Automation Tool — Client: BOEING

- Developed a tool for editing CAD drawings to set the hatching pitch and angle for each hatching depending on shape and location of hatchings
- Custom APIs were developed using CAA/C++ for extracting the shape and location information of the hatchings and editing their properties
- Used C++, C#, CAA, WinForms, Catia V5

## SKILLS

### Programming Languages:

C++ , Python, C#, VB.Net, Typescript.

### Packages and Libraries:

ROS, OpenCV, Gazebo, Tensorflow, CAA

### Design Softwares:

Catia, Creo, Solidworks

### Version Control:

Git, TFS, SVN

### IDE:

Visual Studio, Sublime, Visual Studio Code, Eclipse.

### Database:

SQL, Firebase

## REFERENCES

### Dr. Todd Murphey

Director - MS in Robotics

Professor in Mechanical Engineering

Northwestern University

[t-murphey@northwestern.edu](mailto:t-murphey@northwestern.edu)

### Dr. Jarvis Schultz

Asst. Director - MS in Robotics

Lecturer in Mechanical Engineering

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## **Structural Repair Manual Thickness Evaluation Tool**

— *Client: BOEING*

- Developed a tool which is used for evaluation of thickness of composite panels at each and every point in the aircraft fuselage. The tool performs the following tasks
- Reading SVG image files and populating the data to database.
- Measuring the thickness of CATIA 3D model at every point and populating the data to database.
- Custom made user interface for comparing the thickness data from the SVG file and the 3D part.
- Generate automated reports and summary of various data.
- Used Catia V5, C#, SQL, WPF, SVG, XML, MS Office Automation.

## **Composite Panel Automation Tool**

— *Client: BOEING*

- Developed an application for creating and modifying Composite Sandwich Panels with multiple cores.
- The application can be used to create a new panel in a new location with standard predefined ply layup which would be release ready.
- The application also reads the existing ply layup and assists the user to modify the ply layup by adding, reordering and deleting plies. The user can also modify the material and orientation of any.
- Used Catia V5, C#, WPF.

## **Export ERP Batch Support**

— *Client: ALSTOM*

- This is a support project to resolve user issues while running the application.
- The application exports MCAs from Delmia to ERP on a continuous basis.
- The main errors aroused were due to errors in the application which had to be debugged and corrected
- Used Delmia V6, CAA, C++.