



# GOWTHAM RAJAN N

**Structural Engineer**

*"Curious, motivated and determined"*

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## OBJECTIVE

Dedicative learner with a high track record and outstanding performance in academics. I intend to be part of an organization where I can constantly develop my technical and management skills to make the best use of it for the growth of the society.

## INTEREST

Aviation, Design,  
Innovation,  
Project Management

## ROLE & EXPERIENCE SUMMARY

Responsible for the static analysis, Fatigue life, Crack propagation estimation and reserve factor determination in various components of fuselage, wings, pylon, and other parts of commercial aircrafts.

- Experience in Metallic and composite Static strength calculation.
- Experience in DFEM load Extractions and obtained FDT equivalent stresses using Spectrum.
- Experience in Build stress extraction, Fatigue life calculation and Stress Corrosion Cracking.
- Experience in ACD sheet preparation using ACD tool.

## SKILLS

• Auto-CAD	• MS Office, Excel VBA	Tamil	<div></div>
• Solidworks, CATIA	• Python, C, Power apps	English	<div></div>
• ANSYS, MATLAB	• Airbus ISAMI, ACD Tool	French	<div></div>
• MSc Patran, Nastran	• Hyperworks	German	<div></div>

## WORK EXPERIENCE

Bangalore, India	<b>Expleo Technologies India Pvt Ltd</b>
Mar. 2022 – Present	Engineer – (Aerospace Structural)
Sep. 2021 – Mar. 2022	Graduate Trainee Engineer – (Aerospace Structural)

## EDUCATION

Aug. 2017 – May. 2021	<b>Bachelor of Engineering (Mechanical) – 9.02 CGPA</b>
Coimbatore, India	<i>Hindusthan College of Engineering and Technology, Anna University</i>
Jun. 2014 – May 2017	<b>HSC – 86% &amp; SSLC – 98%</b>
Perambalur, India	<i>Sri Ramakrishna Matric Higher Secondary School</i>

## HONOURS AND ACHIEVEMENTS

- ✓ Secured all India 2nd position in Saur Urja Vehicle Challenge organized by RSTE Engineers.
- ✓ Secured all India 1st position in Rally Car Design Challenge conducted in Bikaner (Desert), Rajasthan.

## PROJECTS

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Oct. 2021 – Dec. 2021	<b>Static Strength Calculation in Nose Landing Gear Bay upper panel (A319/A320/A321)</b>
Dec. 2021 – Feb. 2022	<b>DFEM Extractions; FDT equivalent stress calculation using Spectrum (A350 Serial 1000- STEP6 and STEP7)</b>
Mar. 2022 – May. 2022	<b>Build Stress Extraction, Fatigue life Calculation and SCC (A319/A320/A321XLR/NEO)</b>

## TRAINING EXPERIENCE

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Apr. 2021 – Aug. 2021 Coimbatore, India	<b>Undergraduate Research Assistant</b> Hindusthan College of Engineering and Technology.
Feb. 2021 – Mar. 2021 Coimbatore, India	<b>Internee</b> Schneider Electric India Pvt LTD (A Unit of L&T Electrical and Automation).
Nov 2019 – Dec 2019 Coimbatore, India	<b>Internee</b> Messer Cutting Systems India Pvt Limited.
Nov. 2018 – Dec. 2018 Coimbatore, India	<b>In-plant Trainee</b> ROOTS Industries India Pvt Limited.

## COURSE COMPLETIONS

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Completed an online course in Coursera and NPTEL about Self Driving Cars, Engineering Mechanics, Wind Energy, Engineering Project Management, Mechanics of Materials, Product Design & Development, Generative Design, Digitalization in Aerospace Industry, Model Based System Engineering. Supply Chain Management, Excel Skills for Business: Essentials, Excel/VBA for Creative Problem Solving, Data Processing using Python.

## CONFERENCE PROCEEDINGS AND PRESENTATIONS

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- ✓ Presented a research paper in the International Web Conference on Smart Engineering Technologies about Solar Powered Electric Vehicle.
- ✓ Presented a research paper in “International Virtual Conference of Recent Innovations in Science, Engineering and Technology” about Design and Development of All-Terrain Electric Vehicles.
- ✓ Presented a research paper in “AICTE Sponsored E-Conference on Systems Modelling and System Dynamics” Design and Development of All-Terrain Electric Vehicles.

## EXTRA-CURRICULAR

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- ✓ Participated in SUPRA, E-BAJA, BAJA, Formula-1 Vehicle Competition, organized by SAE India in JUN 2019.
- ✓ Volunteer in the National Service Scheme funded by the Government of India.