ABIN WILLINGTON

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EDUCATION

Visvesvaraya Technological University — Belgaum, Karnataka
Bachelor of Engineering in ***Mechanical Engineering; GPA: 7.88*** — (Jul. 2016 – Sep. 2020)

- Graduated with ***First Class with Distinction***

EXPERIENCE

Axiscades Aerospace Technologies — Bengaluru, Karnataka
F&DT Engineer — (Jul 2023 – Present)

Project - Fatigue Analysis for A350 fleet – Airbus India:

- Support digitilization tasks of **WFD** (**Widespread Fatigue Damage**) sensitive locations of nose fuselage and center fuselage (S-15) of A350 aircrafts.
- Trained to perform **spectrum analysis** for equivalent stress calculation in **ISAMI** for fatigue analysis.

Tools Used: 3Dxcollab, 3DEXPERIENCE, ISAMI, Hypermesh.

Infosys – Rolls Royce ODC — Bengaluru, Karnataka
Stress Engineer — (Jun 2021 – Jul 2023)

Project - Rolls-Royce UK Concessions:

- **Stress and lifing** specialist approver of turbine static components for concessions and deviation permits on different families of **Rolls-Royce Civil Large Engines**.
- Predict the mechanical behavior of turbine static components with inherent manufacturing anomalies by taking into account of various failure mechanisms (**fatigue [LCF,HCF],** ultimate loads and creep) and other contributing factors (thermal induced loads, corrosion, handling damages).
- Undertook **finite element stress analysis in SC03** for changes in design definitions and in-service investigations to aero-engine critical components to ensure compliance of **life, strength** and **mechanical integrity**.
- Hands on experience in **crack propagation** analysis (**damage tolerance**) of mechanical components subjected to different thermo-mechanical loads, using the concepts of fracture mechanics in **SC03**.
- Coordinating with multi discipline specialist teams to assess priority concessions from stress perspective and ensure quick delivery to avoid build stop.
- Prepare the stress simulation models with accurate representation of the physical problem for various aero engine critical components such as compressor and turbine discs.

ToolsUsed**: SC03**, NX, Microsoft Excel, SAP, Kanbanize.

SKILLS

- **CAD/FEM Tools: SC03, ANSYS**, Hypermesh, NX, CATIA V5, Solid Edge
- **Programming Languages**: Python, SQL, Java, Vb.Net (Excel & CAD Automation)
- **Other Tools**: **ISAMI**, **Kanbanize, Teamcenter, SAP**, Microsoft Office
- **Soft Skills**: Systems level thinking, interpersonal & presentation skills, good communication, able to work accurately at pace.

CERTIFICATIONS & COURSES

- Introduction to Engineering Simulations: **Cornell University** (Jan 2023 –Present)
  Skills: **ANSYS**, Finite Element Analysis, **Solid Mechanics**, CFD
- Python for Data Science, AI and Development : **IBM** (Jul 2022)
  Skills: Python, Numpy, Pandas, APIs
- International English Language Testing System **(IELTS): British Council, Cambridge English** (Feb 2023)
  Band score: 8.0 (C1 level)