



Shekh Mostofa Abedin

MECHANICAL ENGINEER

CONTACT

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EDUCATION



The University of Sydney
*Bachelor of Engineering:
Mechanical*

Class of 2020

Final Year Thesis:

*Numerical and experimental study of
externally loaded bolted joints*

Discrepancies in member stiffness and deformation characteristics for externally loaded bolted joints were studied. An experimental method involving physical models, an analytical method using established formulae in literature were contrasted with numerical methods using Finite element Analysis (FEA) in ANSYS and SolidWorks.

SUMMARY

Mechanical Engineering graduate with a strong passion for the automotive industry. Experienced as a Subject Matter Expert in the automotive data sector at a notable company. Enthusiastically seeking growth opportunities to advance my career in this sector

EXPERIENCE

PARts DB Australia

Automotive Subject Matter Expert Operations Lead

May 2023- Nov 2023

Automotive Data Expert

- In depth knowledge of Automotive data Ecosystem.
- Knowledge of data standards for major companies in automotive industry.
- Advanced user of PARts Console to manage customer products and subscriptions.
- High level understanding of TecAlliance Catalogue and systems (TecDoc Data packs, DMM upload etc)
- Regularly assisted customers with Product Gap Analysis based on VOR data.
- Regularly worked with PARts Dev team to update and maintain customer databases via backend.

Offshore SME Team Lead

- Managed and lead offshore Subject Matter Expert team in Philippines.
- Team's primary responsibility included data mapping tasks
- Tasks included but not limited to mapping customer vehicles to TecDoc Ktypes.
- Mapping vehicles between different standards such as MAM UK and TecDoc Ktypes
- Customer Product and fitment bulk upload.

Customer Support Lead

- Project lead for new PARts Help Desk. Developed, launched and managed platform.
- Worked to bridge gap between data supplier and seller.
- Incorrect fitment data feedback to suppliers.
- TecDoc SRS tickets management.
- Customer Liaison/Consultant for all data related enquiries
- Customer training on PARts Console and PARts Help Desk
- Managed After-hours support systems and pipelines

Operations Management

- Responsible for managing BAU and recurring tasks.
- Direct report for Automotive SME interns.
- Managed day to day office needs.
- Fire Warden etc

DEGREE RELATED PROJECTS

Formula Society of Automotive Engineers (SAE) team member

- Design and testing of FSAE specification race car.
- Managed funding and awareness raising events.
- Attended design competition between Australian Universities.

3D printing using Carbon Fibre

- Extensive research conducted on 3D printing and thermoplastic compounds,
- Molecular level analysis of reinforced and pre-impregnated carbon fibre.
- Attempted to increase manufacturing quality.

LANGUAGES

- **English** – Native / Bilingual Proficiency
- **Bangla** – Limited Working Proficiency
- **Hindi and Urdu** - Limited Working Proficiency

SKILLS

SOFTWARE SKILL

- SQL Server
- JIRA Software
- AutoCAD (CAD)
- SolidWorks (CAD,CAM & FEA)
- ANSYS (FEA & CFD)
- MATLAB
- LabView
- Microsoft Office Suite

SOFT SKILL

- Communication
- Teamwork
- Leadership
- Problem-solving
- Adaptability
- Time management

Lenovo Configuration Services

Configuration Services Engineer Mar 2021- May 2023

- Managed Lenovo's Device as a Service (DaaS) project for KPMG, overseeing the deployment and support of devices, software, and security solutions.
- Deployed asset tags and associated labels, collected related data, and reporting.
- Coordinated with the project management teams to establish, QC documentation and maintaining the build process for each project.
- Planned and scaled resources within the facility to cope with a staggered or spiked work demand.
- Project coordination involving procurement, logistics, end-to-end fulfillment, goods flow and space utilization.

CSR Australia (PGH Bricks & Pavers)

Mechanical Engineer (Intern)

Jul-Sep 2020

- Focused on reliability engineering, ensuring factory ran efficiently.
- Attended scheduled maintenance programs and asset failure prevention plan meetings.
- Observed factory machine breakdown and attended major incident investigation meetings.
- Conducted JSEA after WHS toolbox meetings under supervision.
- 3D modelling using AutoCAD of various factory equipment components.
- Managed and updated Engineering department database containing engineering drawings, manuals, service records, machining quotes etc.
- Managed a KPI project involving inventory management for critical spares of factory equipment for upcoming internal audit.
- Developed technical skills through training and shadowing Plant Engineer.

CERTIFICATIONS



ENGINEERS AUSTRALIA

Professional Year in Engineering
2021



Navitas Professional

BSB40215 Certificate IV in
Business
2021

REFREES

Available upon request