



PANCHANA MADARA

Final Year Undergraduate
Aeronautical Stream
Department of Mechanical Engineering
University of Moratuwa

CONTACT INFO



Piyakaru, Walpita, Telijjawila,
Matara



071 480 94 87



panchanam97@gmail.com



www.linkedin.com/in/panchana-madara/

PERSONAL SKILLS

- Teamwork skills
- Leadership skills
- Willingness to learn
- Flexibility
- Pressure Handling
- Hard worker

TECHNICAL SKILLS

Technical Software Awareness

SolidWorks / SolidEdge /
Autocad / Arduino / Ansys /
Geomagic Design X

Programming Languages

Python
C++
Matlab
Java

Other Software skills

MS Office Package
Adobe Photoshop
Adobe Illustrator
Adobe Premiere Pro

• ABOUT ME

A highly motivated and hardworking undergraduate in Aeronautical Engineering Stream with good team work skill. Currently I look for a job opportunity to utilize my technical skills in a challenging working environment and become a valuable asset to the organization that I work for.

• EDUCATION

University of Moratuwa - (2017 - Present)

B. Sc. Engineering Hons. (Undergraduate)
Specialization in aeronautical stream
Department of Mechanical Engineering
CGPA 3.59 (Up to Semester 7)

Telijjawila Central College - (2007 - 2016)

G.C.E. Ordinary Level - 9 As
G.C.E. Advance Level -
Physical Science stream (2016)
Combined Mathematics - A
Chemistry - A
Physics - A
Z-score - 2.3570

• ACADEMIC PROJECTS

Mechatronic Project (semester 2)

Smart Gate and Vehicle Monitoring System

A prototype of smart gate and vehicle monitoring system for university entrance gate was designed under semester 2 mechatronic module. I had to do coding part of the vehicle monitoring system.

Reverse Engineering Project (semester 3 & 4)

Reverse analysis of components in a effective umbrella and studying the manufacturing processes of each component.

Machine Design Project (semester 5)

Gear Box Design for Wood Sawmill

Calculated and designed a gear box including 3 forward gears and one reverse gear for a wood sawmill. 3d model designed with the engineering calculations.

PREFERRED AREA OF STUDY

- Computer aided design and manufacturing
- Aerodynamics
- Turbomachinery and propulsion Technology
- Computational Fluid Dynamics (CFD)
- Finite Element Analysis (FEA)

Design and Development of a modular fuel system for micro gas turbine (On going)

Designing and developing the fuel system for the currently ongoing project of micro gas turbine engine development for the use of experimental purposes and to further develop for a small-scale power generation system or UAV propulsion system.

● WORK EXPERIENCE

- Trainee Engineer at Aircraft Overhaul Wing at Sri Lanka Air force, Katunayake

15/12/2020 to 20/05/2021 - Successfully completed the training program as trainee engineer at Aircraft Overhaul Wing at Sri Lanka Air Force Katunayake

● ACHIEVEMENT

- Dean's List for semester 5 - for obtaining Grade Point Average (GPA) above 3.8 in all academic semesters (up to present)
- Certificate of Participation Awarded for Uas Challenge 2020- Institution of Mechanical Engineers

● EXTRA CURRICULAR ACTIVITIES

- Secretary of Robotics and Automation Society of IEEE Student Branch of University of Moratuwa

Term 2020/2021

- Design Committee Member - IEEE Student Branch University of Moratuwa - Term 2019/2020

Term 2019/2020

- Pillar member of Creative design in Moraspirit

2019-2021

- Member of IESL student chapter

2018-Present

- Institution of Mechanical Engineering, United Kingdom (IMechE) - Student member

2018-Present

● References

- Dr. M Anusha Wijewardane

B.Sc. Eng. (SL), Ph.D.(UK)

Senior Lecturer Department of Mechanical Engineering

University of Moratuwa

anusha@uom.lk

Tel. No: +94112650301

- Dr. J.G.A.S Jayasekara

B.Sc. Eng (Moratuwa), M.Sc. (Royal Institute of Technology (KTH), Sweden),

PhD (Melbourne, Australia)

Senior Lecturer Department of Mechanical Engineering

University of Moratuwa

Saliya.jg@gmail.com

Tel. No: +94763221274