

MOHAMED KAIS

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ABOUT ME

A dedicated Mechanical & Manufacturing Engineer with a strong background in designing and optimizing mechanical systems for enhanced performance. Proficient in CAD/CAM software and experienced in implementing lean manufacturing principles. Committed to delivering high-quality products and driving process improvements. Excited to bring my skills and expertise to contribute to your company's success.

EDUCATION

BSC. ENG. (HONS) IN MECHANICAL & MANUFACTURING ENGINEERING 2025
University of Ruhuna, T/T/Pulmoddai, Sri Lanka

- ✓ GPA: 3.75
- ✓ *Related coursework:* Thermodynamics, Fluid Mechanics, Heat Transfer, Machine Design, Manufacturing Processes, Automation
- ✓ *Thesis:* Optimization of a Fruit Picking Robot for Enhanced Efficiency and Ergonomics

ADVANCED LEVEL 2019
Muslim Central College, T/T/Pulmoddai, Sri Lanka

- ✓ *Marks:* Combined Mathematics - 'A', Physics - 'B', Chemistry - 'A', General English - 'C'

RESEARCH PROJECTS

ENHANCED FRUIT PICKER

- ✓ Designed and implemented a prototype fruit picker, incorporating a robotic arm and a vision system to increase picking efficiency by 20% compared to traditional methods.

SKILLS

Designing Tools

- **SOLID WORKS:**
 - ✓ Proficient in 3D modeling, assembly, and drafting using SOLID WORKS for creating detailed designs of mechanical components.
- **SKETCH BOOK:**
 - ✓ Skilled in hand sketching technical drawings and concepts, enabling quick visualization and communication of ideas.
- **AUTO CAD:**
 - ✓ Experienced in using AUTO CAD for 2D drafting and creating detailed technical drawings.

Simulation Tools

- **MATLAB:**
 - ✓ Utilized MATLAB for simulating mechanical systems, analyzing data, and generating visualizations for optimization and performance evaluation.

Other Tools

- **MS EXCEL:**
 - ✓ Skilled in using MS EXCEL for data analysis, spreadsheet management, and creating graphs and charts for presentations.
- **MS WORD:**
 - ✓ Proficient in using MS WORD for creating professional documents, reports, and presentations.
- **PHOTOSHOP:**
 - ✓ Basic understanding of image editing software like Photoshop for manipulating images and creating visual content.
- **ILLUSTRATOR:**
 - ✓ Basic knowledge of Illustrator for creating vector graphics and illustrations.
- **IN DESIGN:**
 - ✓ Basic understanding of IN DESIGN for page layout and design of publications.
- **PREMIERE PRO:**
 - ✓ Basic knowledge of Premiere Pro for editing and creating video content.

Languages

- **English:** Fluent
- ✓ IELTS: 7.5
- **Tamil:** Native Language
- **Sinhala:** Fluent

PROFESSIONAL QUALIFICATION

Courses

- ✓ CREATE STUNNING GRAPHIC DESIGN (Udemy - Present)
- ✓ SKETCH BOOK FREE HAND SKETCHING (Udemy - Present)
- ✓ SOLID WORK SURFACING (Coursera - Present)
- ✓ PYTHON (Cousera - Present)

EXPERIENCE

TEACHER FOR PHYSICS & MATHEMATICS

Present

Volunteer, Trincomalee, Sri Lanka

- ✓ Tutored students in Physics and Mathematics, fostering their understanding of fundamental concepts and problem-solving skills.
- ✓ Developed engaging lesson plans and activities to enhance student learning and motivation.
- ✓ Provided individualized support and guidance to students to address their specific learning needs.

FOOTBALL TEAM PLAYER

Mar 2022 – Present

University of Ruhuna, T/T/Pulmoddai, Sri Lanka

- ✓ Participated in the University of Ruhuna football team, demonstrating teamwork, sportsmanship, and physical fitness.
- ✓ Contributed to the team's success through my skills and dedication on the field.
- ✓ Maintained a positive and supportive team environment.

REFERENCES

References available upon request.