

MOHAMED KAIS

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ABOUT ME

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, Sri Lanka

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

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

SKILLS

Designing Tools

- **SOLID WORKS**: Experienced in creating 3D models, assemblies, and drawings for mechanical components and systems. Proficient in using SOLIDWORKS features for design analysis, simulation, and manufacturing.
- **SKETCH BOOK**: Skilled in sketching freehand, creating conceptual designs, and developing detailed technical drawings.
- **AUTO CAD**: Proficient in 2D drafting, creating technical drawings, and using AutoCAD for design documentation.

Simulation Tools

- **MATLAB**: Expertise in using MATLAB for numerical analysis, data visualization, and simulation of mechanical systems. Proficient in developing scripts and functions for specific engineering applications.

Other Tools

- **MS EXCEL**: Proficient in using Excel for data analysis, spreadsheet management, and creating visualizations. Familiar with using Excel for engineering calculations and presentations.
- **MS WORD**: Skilled in using Word for creating documents, reports, and presentations. Familiar with using Word for technical writing and formatting.
- **PHOTOSHOP**: Proficient in using Photoshop for image editing, retouching, and creating visual assets for presentations and reports.
- **ILLUSTRATOR**: Experience in using Illustrator for vector graphics, creating logos, and designing diagrams.
- **IN DESIGN**: Proficient in using InDesign for creating layouts, brochures, and other marketing materials.
- **PREMIERE PRO**: Experienced in using Premiere Pro for video editing, creating presentations, and developing visual content.

COURSES

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

PROJECTS

ENHANCED FRUIT PICKER

- ✓ 2nd Year Project, University of Ruhuna, Sri Lanka. Designed and developed a prototype fruit picker with improved ergonomics and efficiency for harvesting fruits from trees. Implemented features to improve the picking process, including:
 - A lightweight, ergonomic handle for reduced operator fatigue.
 - Adjustable height settings to accommodate different tree sizes.
 - A specialized picking mechanism to minimize fruit damage.

EXPERIENCE

TEACHER FOR PHYSICS & MATHEMATICS

Present

Volunteer

- ✓ Developed and delivered engaging lesson plans for Physics and Math topics to students in grades 9 - 12.
- ✓ Utilized innovative teaching methods to enhance student comprehension and interest in the subjects.
- ✓ Provided individual tutoring and support to students requiring additional help.

FOOTBALL TEAM PLAYER

Mar 2022 – Present

University of Ruhuna, Sri Lanka

- ✓ Participated in inter-university football matches, contributing to team strategies and tactical plays.
- ✓ Demonstrated strong teamwork skills and a collaborative approach to achieving team goals.
- ✓ Developed my physical fitness and stamina through rigorous training and practice.

LANGUAGES

- English: Fluent
- Tamil: Native
- Sinhala: Fluent

REFERENCES

References available upon request.