

# Mohamed Kais

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## ABOUT ME

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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

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**BSC. ENG. (HONS) IN MECHANICAL & MANUFACTURING ENGINEERING** 2025

University of Ruhuna, Galle, Sri Lanka

- **GPA:** 3.8/4.0 (Expected)
- **Related coursework:** Fluid Mechanics, Thermodynamics, Machine Design, Manufacturing Processes, CAD/CAM, and Finite Element Analysis.
- **Thesis (Expected):** A research project on optimization techniques for manufacturing processes.

**ADVANCED LEVEL**

2019

T/T/Pulmoddai Muslim Central College, Trincomalee, Sri Lanka

- **Subjects:** Combined Mathematics - 'A' | Physics - 'B' | Chemistry - 'A' | General English - 'C'

## SKILLS

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### Designing Tools

- **SOLID WORKS:** Created 3D models and drawings for various mechanical components, including fruit pickers, gearboxes, and hydraulic systems.
- **SKETCH BOOK:** Skilled in freehand sketching for concept development and technical drawings.
- **AUTO CAD:** Experienced in 2D drafting and design for manufacturing drawings and blueprints.

### Simulation Tools

- **MATLAB:** Used MATLAB for numerical analysis, data visualization, and simulating mechanical systems.

### Other Tools

- **MS EXCEL:** Proficient in spreadsheet software for data analysis, financial modeling, and creating reports.
- **MS WORD:** Experienced in document processing for writing reports, presentations, and technical documentation.
- **PHOTOSHOP:** Knowledge of image editing for creating visuals, editing photographs, and designing logos.
- **ILLUSTRATOR:** Familiar with vector graphics software for creating logos, illustrations, and infographics.
- **IN DESIGN:** Basic understanding of layout software for creating brochures, flyers, and other print materials.
- **PREMIERE PRO:** Experience in video editing for creating presentations, documentaries, and promotional videos.

## Languages

- **English:** Fluent
- **Writing:** Demonstrated in academic papers, technical reports, and project documentation.
- **Reading:** Evident in research papers, professional journals, and technical manuals.
- **Speaking and Listening:** Supported by effective communication in professional settings and collaborative discussions.
- **Tamil:** Native Language
- **Sinhala:** Second Language

## COURSES

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- **CREATE STUNNING GRAPHIC DESIGN:** Completed course on Udemy, learning graphic design principles and techniques.
- **SKETCH BOOK FREE HAND SKETCHING:** Completed course on Udemy, developing skills in freehand sketching for technical and creative purposes.
- **SOLID WORK SURFACING:** Completed course on Coursera, gaining expertise in advanced surfacing techniques for 3D modeling in SOLID WORKS.
- **PYTHON:** Currently enrolled in a course on Coursera, learning Python programming for data analysis, automation, and machine learning.

## PROJECTS

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### ENHANCED FRUIT PICKER

2023

- Designed and developed a prototype for an enhanced fruit picker that optimizes ergonomics and efficiency for harvesting fruits.
- Implemented SOLID WORKS to create the 3D model and drawings for the fruit picker, ensuring the design met specific requirements.
- Conducted feasibility studies to evaluate the design's effectiveness and identified potential improvements.

## EXTRA - CURRICULAR ACTIVITIES

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- **TEACHER FOR PHYSICS MATHEMATICS:** Volunteering as a tutor for physics and mathematics, sharing my knowledge and skills with younger students.
- **FOOTBALL TEAM PLAYER:** Actively participate in the University of Ruhuna's football team, promoting teamwork, sportsmanship, and physical fitness.

## REFERENCES

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References available upon request.