

Mohamed Kais

📍 Gopalpuram, Trincomalee ✉️ kaiskmk911@gmail.com 📞 +94 71 214 0049 [in linkedin.com/in/kais-k-mk-540907256](https://www.linkedin.com/in/kais-k-mk-540907256)

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

B.Sc. Eng. (Hons) in Mechanical and Manufacturing Engineering 2025
University of Ruhuna, Galle, Sri Lanka

- ✓ *Related coursework:* Mechanics of Materials, Thermodynamics, Fluid Mechanics, Heat Transfer, Manufacturing Processes, Machine Design, CAD/CAM, Engineering Drawing, and more.

Advanced Level (A/L) 2019
T/T/Pulmoddai Muslim Central College, Trincomalee, Sri Lanka

- ✓ *Subjects:* Combined Mathematics (A), Physics (B), Chemistry (A), General English (C)

RESEARCH PROJECTS

Enhanced Fruit Picker

- ✓ Designed and developed an enhanced fruit picker to improve efficiency and reduce damage to fruits during harvesting.
- ✓ Utilized CAD software to create detailed 3D models of the picker and conducted simulations to optimize its design.
- ✓ Collaborated with a team of engineers to test and refine the prototype, ensuring its effectiveness in real-world scenarios.

PRESENTATIONS

- ✓ "Design and Analysis of an Enhanced Fruit Picker", Mechanical Engineering Department Seminar, University of Ruhuna, Galle, Sri Lanka (2024)
- ✓ "Introduction to Lean Manufacturing Principles", Workshop for Engineering Students, University of Ruhuna, Galle, Sri Lanka (2023)

SKILLS

Computational

- **MATLAB:**
 - ✓ Implemented numerical methods for solving engineering problems, such as finite element analysis.
 - ✓ Analyzed data to identify trends and patterns related to system performance.
- **SOLIDWORKS:**
 - ✓ Developed detailed 3D models of mechanical systems, including assemblies and components.

- ✓ Utilized SOLIDWORKS simulations to analyze the performance and strength of designs.
- ✓ Created technical drawings and documentation for manufacturing purposes.
 - **SKETCHBOOK:**
- ✓ Developed freehand sketches to communicate design ideas and concepts.
- ✓ Utilized sketching techniques to explore various design options and refine concepts.
 - **AUTOCAD:**
- ✓ Created 2D drawings and technical illustrations for manufacturing and documentation purposes.
- ✓ Utilized AUTOCAD's drafting tools to create precise and detailed designs.

Problem Solving

- ✓ Analyzed complex engineering problems and identified root causes.
- ✓ Developed innovative solutions that met design requirements and improved system efficiency.
- ✓ Evaluated the feasibility and effectiveness of proposed solutions.

Software Proficiency

- **MS Excel:**
- ✓ Developed spreadsheets for data analysis, tracking, and reporting.
- ✓ Utilized formulas and functions to automate calculations and improve efficiency.
- **MS Word:**
- ✓ Created technical reports, presentations, and other documents.
- ✓ Applied formatting and styles to ensure professional document presentation.
- **Photoshop:**
- ✓ Edited and manipulated images for technical illustrations and presentations.
- ✓ Created visual aids and infographics to enhance communication.
- **Illustrator:**
- ✓ Developed vector graphics for technical drawings, logos, and branding materials.
- ✓ Utilized Illustrator's tools to create scalable and high-quality visuals.
- **InDesign:**
- ✓ Designed and formatted brochures, leaflets, and other marketing materials.
- ✓ Utilized InDesign's layout features to create visually appealing and professional publications.
- **Premiere Pro:**
- ✓ Edited and produced videos for technical presentations and marketing purposes.
- ✓ Utilized Premiere Pro's editing tools to create engaging and informative videos.

Languages

- **English:** Excellent
- **Tamil:** Native
- **Sinhala:** Fluent

PROFESSIONAL QUALIFICATION

EXPERIENCE

Football Team Player

Mar 2022 – Present

University of Ruhuna, Galle, Sri Lanka

- ✓ Demonstrated teamwork and sportsmanship skills while representing the university in football matches.
- ✓ Developed strategic thinking and tactical decision-making skills.
- ✓ Promoted a positive and collaborative environment within the team.

EXTRACURRICULAR ACTIVITIES

Teacher for Physics and Mathematics

Present

Volunteer

- ✓ Provided educational support to students in Physics and Mathematics.
- ✓ Implemented engaging teaching methods to enhance student understanding.
- ✓ Developed and delivered study materials to aid students in their learning.

REFERENCES

References available upon request.