Linkedin • Portfolio • Github   **KAILESHWARAN P**   (+91) 948-844-5184
kaileshwaran0648@gmail.com

EMPLOYMENT

Laboratory Assistant	**IITM, Chennai**	**Jul 2021 – September 2021**

Programming: Optimized CNC compiling: 25% complexity reduction, 20% faster production.
- Elevated proficiency in CNC compiling, achieved through accurate optimization, resulted in a noteworthy 25% reduction in both time and space complexities within manufacturing processes.
- Implemented strategic process improvements that delivered a commendable 20% acceleration in production timelines, resulting in refined operational efficiency.
- Streamlined machining processes through strategic optimization, resulting in a 15% increase in overall productivity and cost-effectiveness; reduced machine downtime by 25% and maximized material utilization by 20%.

Electronic: Customized electronics: Streamlined data across 50+ devices, 30% less downtime
- Designed a tailored breadboard and strategically integrated electronic components to streamline data transmission across 50+ devices; minimized electrical complexity, resulting in improved professional connectivity and enhanced operational efficiency.
- Pioneered the implementation of real-time sensor integration, facilitating efficient interlinking and sustainability between device pairs; resulted in a 30% reduction in system downtime and enabled data-driven decision-making for progressive operational efficiency.

Electric: Precision electric circuits: Managed 100+ links, 20% error reduction, enhanced efficiency
- Exhibited advanced proficiency in the crafting and integration of intricate electronic circuits, showcasing adept skills in the strategic management of over 100 interconnected links encompassing a wide array of electrical components and devices.
- Formulated seamless integration of 50+ circuits/devices in an intricate breadboard setup; maximized signal flow and minimized electromagnetic interference, leading to a 20% decrease in system errors and evolved overall performance.
- Progressed connection efficiency, resulting in a 20% reduction in complexity and facilitating ideal replacements.

Mechanical: Machinery Mastery: 30% precision boost, 10x speed, efficiency optimization.
- Upgraded operational performance by attaining a 30% enhancement in precision through expert command of high-speed equipment within the machine design sector.
- Attained a 10x enhancement in accuracy leveraging state-of-the-art methodologies and cutting-edge techniques.
- Implemented strategic measures to master high-speed machines, resulting in a remarkable 10x surge in production output and showcasing expertise in optimizing manufacturing processes for better efficiency and productivity.

SKILLS

Figma, UI & UX Design, Wireframing, Prototyping, Designing, Adobe Photoshop, Adobe Illustrator, Abode Express

PROJECTS

- UI UX DESIGN Projects
  - To Do
  - Communication App
  - E Commerce Store

ACHIEVEMENTS

Completed Harvard's CS50 courses:

- Python programming: CS50 Python
- SQL databases: CS50 SQL
- Computer science: CS50 X
- web programming: CS50 Web

EDUCATION

Erode, Tamil Nadu	**Kongu Engineering College**	**2020 – 2024**

Bachelors in Computer Science and Engineering with coursework in Designing, Illustration, Photoshop, Visual Design, Modelling, Compositing.

Erode, Tamil Nadu	**Kongu Polytechnic College**	**2018 – 2021**

Diploma in Mechatronics Engineering with coursework in Mechanical, Electrical, Electronics, and Programming.