

# KAI MANGIARACINA

**Mechanical Engineer**

**Product Designer**

Certified in SOLIDWORKS and  
CATIA V5

## PROFILE

Driven and energetic Mechanical Engineer with a passion for learning and creating unique solutions. Seeking an entry-level Mechanical Design Engineer Position. Workstyle emphasizes efficiency, sustainability, and teamwork.

## CONTACT

☎ (530) 545-9219

✉ [k.mangiara@gmail.com](mailto:k.mangiara@gmail.com)

🌐 <https://kmangia.com/>

## EXPERIENCE

### Gridiron

Design Engineer

MAY – AUG 2021

- Designed grill grates with logos to be laser cut with special attention to tolerancing, strength of material, and manufacturability.
- Wrote a script to optimize file management.

### Oscar Winski

Design Engineer Intern

MAY - DEC 2019

- Developed detailed design drawings and specifications for mechanical equipment, dies, tools, and controls, using computer-aided drafting (CAD) equipment.
- Created schematics using orthographic or angle views to depict functional relationships of components, assemblies, systems, and machines.
- Modified and revised designs to correct operating deficiencies or to reduce production problems.

### ROCKETEd

Research Data Analyst

JAN - MAY 2019

- Capable of supporting and maintaining data of experiments in a research environment.
- Gained experience in analyzing and reporting qualitative and quantitative data.
- Contributed to reporting findings in scientific publications.

## SKILLS

- Computer-Aided Design (CAD)
- Product Design
- Project Management
- Problem Solving
- Digital Thread/ Digital Twin
- Product Lifecycle Management (PLM)
- Finite Element Analysis (FEA)
- GD&T

## EDUCATION

### Purdue University

2017 – 2021

#### B.S. Mechanical Engineering Technology

- Statics, Dynamics, Materials and Processes, Hydraulics, Thermodynamics, Vibrations, Mechatronics

#### B.S. Virtual Product Integration

- CAD, Digital Thread, Digital Twin, PLM, FEA, GD&T