



AVA DAVIS

Design Engineer

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PROFESSIONAL SUMMARY

Detail-oriented Design Engineer with 7 years of experience in developing innovative design solutions, optimizing manufacturing processes, and enhancing product performance in various engineering projects.

WORK EXPERIENCE

Software Design Engineer

Pineapple Enterprises

Dec / 2019-Ongoing

Santa Monica, CA

- Developed and documented innovative design solutions for complex engineering challenges, enhancing engineering models and bills of materials.
- Designed and fabricated jigs and fixtures for process engineering, ensuring thorough review and updates for each revision.
- Redesigned multiple machines to modernize operations while significantly reducing manufacturing costs.
- Led the complete design process of machines from concept through manufacturing, ensuring alignment with project goals.
- Reviewed and improved colleagues' designs to ensure high-quality mechanical standards and compliance.
- Utilized enterprise systems to gather data supporting infrastructure investment strategies and planning.
- Designed RF interconnects and assemblies to meet stringent customer specifications and internal requirements.

Design Engineer

Crescent Moon Design

Dec / 2017-Dec / 2019

Portland, OR

- Designed structural base frames and foldable extension wings for field cultivators, focusing on durability and efficiency.
- Collaborated with FEA analysts to address stress concentration issues, implementing gusseting techniques to enhance structural integrity.
- Adapted designs based on feedback from design reviews, ensuring cross-departmental collaboration and satisfaction.
- Created detailed skeleton models for various cultivator types, producing comprehensive design calculations and sketches.
- Validated hydraulic calculations for fold linkages and mechanisms, ensuring optimal performance of cultivators.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Michigan

Dec / 2015 - Dec / 2017

Santa Monica, CA

Focused on mechanical design, thermodynamics, and materials science, with hands-on projects in CAD and prototyping.

SKILLS

Autodesk Inventor



Vault Management



Advanced Excel



3D Modeling



Mechanical Design



INTERESTS

Gaming

Fashion

Film

Technology

STRENGTHS

Enthusiasm

Fairness

Flexibility

Forward-thinking

LANGUAGES



English
80%



Indonesian
80%



Mandarin
80%

ACHIEVEMENTS

Reduced design cycle time by 30% through process improvements.

Led a project that resulted in a 20% cost reduction in manufacturing.