



Edie Burgoa

Junior Mechanical Engineer

As a Junior Mechanical Engineer with over three years of experience, I have gained valuable knowledge and hands-on experience in the engineering field. I am knowledgeable in the use of various types of software including AutoCAD, Inventor, CreoParametric, Revit Structure, Staad Pro V8i, COSMOSHILSENHECHTMS etc. My key strengths include problem solving skills, analytical thinking abilities and excellent written & verbal communication skills. In my previous roles I have consistently demonstrated my ability to work effectively within a team environment as well as independently when required.

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Education

**Associate of Science in
Mechanical Engineering at
University of California, Los
Angeles**

Aug 2015 - May 2019

I've learned the basics of mechanical engineering, including how to design and analyze mechanical systems.

Links

[linkedin.com/in/edieburgoa](https://www.linkedin.com/in/edieburgoa)

Skills

AutoCAD



Solidworks



MATLAB



C++



Microsoft Office Suite



Languages

English



German



Employment History

Junior Mechanical Engineer at Lockheed Martin, ID

Mar 2022 - Present

- Led the mechanical design of a bespoke machine. The machine was designed to improve productivity by 15% and went on to be successfully installed at 3 customer sites.
- Redesigned a jig used in production, resulting in a 10% reduction in set-up time.
- Automated testing rig for new products which saved £2k per month in labour costs.
- Learned CAD software 'Solidworks' within 2 weeks due its requirement for upcoming projects; went on to use it regularly during work tasks..
- Use of stress analysis tools such as Ansys & hand calculations help identify potential failure points/modes before manufacture - saving money & protecting people.

Trainee Mechanical Engineer at Northrop Grumman, ID

Sep 2019 - Feb 2022

- Led a team of four in the design and implementation of a new HVAC system for the office. The project was completed on time and under budget.
- Successfully installed an updated version of software that monitored equipment failures, predicted maintenance needs, and recorded operational data. As a result, downtime was decreased by 15%.
- Undertook training to develop skills in 3D CAD modelling using Autodesk Inventor which led to increased efficiency when designing mechanical parts and assemblies.
- Completed analysis on over 100 bearings used in rotating machinery to identify potential areas for improvement. Based on findings, redesigned 10% of bearings leading to decrease vibrations throughout machines operation by 4%. Additionally cost per part was lowered due improved production efficiencies.

Certificates

Certified Mechanical Engineer (CME)

Jan 2021

Certified Manufacturing Engineer (CMfgE)

Apr 2019

Hobbies

Building things (e.g. model cars,
robots, etc.)

Playing video games

Listening to music

Memberships

American Society of Mechanical Engineers (ASME)

Society of Automotive Engineers (SAE)