



Elsa Ogreni

Mechanical Design Engineer

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SUMMARY

- **Design Proficiency:** SolidWorks (3D Design, Assembly, Sheet Metal), MasterCAM, AutoCAD, TruTops, BySoft.
- **Managing High-Cost Projects:** Taking into account material, complexity, technical matters, and delivery time.
- **Effectiveness:** Research new technologies to utilize them fully, with a track record of bringing innovative ideas to fruition.
- **People Skills:** Experience in customer-facing roles has made me a customer whisperer with sharp communication and a team-first mentality.

"Hard work and patience lead the way"

I am a highly motivated and enthusiastic individual with a passion for learning and developing my skills. Apart from having a Bachelor's degree in Mechanical Engineering from the University of Peloponnese and keeping up with the latest mechanical design programs, I possess a positive attitude and the ability to manage challenging situations with ease. I have a very strong work ethic and I take pride in what I do. I am always looking for opportunities to grow and improve and I am never content with being stationary.

EDUCATION

2013 – 2020
Patras, Greece

Bachelor's at Mechanical Engineering, University of Peloponnese 

Thesis: Measurements of the calorific value of gas fuels with the method of Cone Calorimeter.

Used tools:

Python, Fortran, QBasic.

SolidWorks (2D/3D), Autocad (2D/3D).

2018 – 2019
Athens, Greece

Certificate of specialised training in Special Education,

Kapodistrian University of Athens

I gained a deeper understanding of the unique needs of students with disabilities. Various teaching strategies and interventions to support academic, social, and emotional development were the main goals of this program. In addition, I developed my skills in creating individualized education plans and creating inclusive learning environments.

2014
Patras, Greece

Certificate of Proficiency in English, University of Michigan



PROFESSIONAL EXPERIENCE

Apr 2021 – Nov 2022
Patras, Greece

Mechanical Design Engineer, SKK Metal

- Modernized processes through automation by digging deeper into software capabilities (in Excel, BySoft, TruTops, and more).
- 2D and 3D design (Mastercam, SOLIDWORKS, AutoCAD).
- Laser cut design (BySoft) and laser operation.
- Punching design (TruTops).
- Image editing (Corel, Photoshop).
- Project cost estimation (transitioned from manual to self-developed automated formulas) and management using Trello.
- In charge of all projects that had to be operated in the Bystronic Laser Machine (like processing 45tons of Aluminium sheet metal).

2012 – 2021
Patras, Greece

Costomer Service, Various Employers

- Main waitress.
- Cashier duties.
- Stock management.

Working in a customer service position not only allows you to understand the needs and wants of others, but also helps you to develop empathy, patience, and effective communication skills, which in turn can be applied to all areas of your life, making you both a more understanding and efficient person.



LANGUAGES

English
Proficient



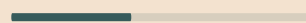
Albanian
Native



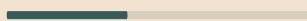
Greek
Native



Italian
Elementary



German
Elementary





SKILLS

BySoft



A very flexible program for laser cutting. It is especially useful for nesting, a process strictly related to the cost, sheet metal thickness, and other properties.

MasterCAM



Used mainly for 2D design, doing preliminary work for the Bystronic Laser Cutting Machine software (Bysoft).

TruTops



Used TruTops for punching processing - a very common task in a company I worked for.

Managing High-Cost Projects



I have managed dozens of high-cost projects, with the highlight being laser cutting 45 tons of aluminum sheet metal; teaching me attention to detail and stress management skills.

I have also been responsible for stock management in the iron warehouse of this company, including sheet metal (Aluminium, Steel, Inox, DCP), UPN/IPE profiles, and Square/Rectangular/Circular hollow structural profiles, etc.

MS Office



Used extensively during work and university.

SOLIDWORKS



Used mostly for sheet metal processing and 3D designs.

Used in self-taught projects (3D designs, assembly, sheet metal)

AutoCAD



Used interchangeably with MasterCAM based on the compatibility of the 2D designs.

People Skills



I am a very friendly and empathetic person, and I connect with people quite easily. I am a team player, as I have been part of a team in most of my past jobs. At the same time, I am attentive to the customers' needs, taking special care into understanding their exact requirements.

Process Modernization



Researching software capabilities and utilizing them fully (SolidWorks, MasterCAM, Excel, and more)

Excel formula for cost estimations, resulting in a reduction of human errors by 60% while making a previously tedious process almost instant.

Utilized Trello for project management. This helped immensely in

keeping track of many parallel orders, making their information accessible in real-time.

Photoshop, Corel



Basic image editing.



PROJECTS

Feb 2023

Marble Toy

The marble toy was built in SolidWorks. It allowed me to tap into my creative side to build a functional and visually pleasing design, while also learning about the different components and mechanisms that make the toy work.

Jan 2023

V6 Engine

This was an interesting and challenging experience in SolidWorks, as it required me to use my technical knowledge and problem-solving skills to create a functional and efficient design, while also learning about the different components and mechanics involved in V6 engines.

Dec 2022

Lego Astronaut Minifigure

Designing a Lego Minifigure in SolidWorks was an exciting and fun experience, as it allowed me to apply my technical skills in a creative and playful manner. I tested my ability to design each part separately and work on assemblies.

VOLUNTEERING

Oct 2013 – 2015

Patra, Greece

Kivotos agapis (ark of love), Teaching and creative activities

- Teaching kids with special needs
- Taking care of their needs and entertainment
- Participated in the creative activities group

During my years of volunteering, I have been able to gain a deep understanding of the challenges these individuals face on a daily basis. I have been able to provide emotional support, comfort, and companionship. I also had the opportunity to help organize activities and events. My time spent volunteering has given me a profound appreciation for the beauty of human relationships and for the strength and resilience of the human spirit.

INTERESTS

Sewing

I started sewing three years ago which provided me with a creative outlet and a sense of accomplishment. Sewing is a relaxing, enjoyable activity that can be shared with family and friends. With a little bit of instruction and practice, anyone can learn to sew and begin and enjoy the satisfaction of creating something beautiful and unique.

Reading

Reading is an extraordinary experience. Every time I read a book I become a better version of myself, a magical process I wish for everyone, let alone the expansion of the imagination, and discovering new perspectives. It has helped me gain a deeper understanding of topics, develop critical thinking skills, and even improve my writing ability. Reading can also be a great source of joy and relaxation.

My best authors are:

- 1) Leonardo Mlodinow
- 2) Jorge Bucay
- 3) Yuval Noah Harari and more.

Dancing

Salsa, Batchata.

It helps me improve the flexibility, strength, and coordination of the body. It also helps me to reduce stress and anxiety, two characteristics that in the routine of 21 century are quite bold. Dancing has a magical ability to increase feelings of joy, confidence, and connection to others.