MECHANICAL ENGINEER M.S.

Born March 12th, 1992 in Reykjavík, Iceland Vesturgata 53b, 101 Reykjavík, Iceland

🛿 (+354)8483390 | 🔄 saevaroe@gmail.com | 🛅 saevaroe | 😒 saevaroe

Mechanical Engineer specializing in Product Design and Development, looking to develop sustainable solutions

Work Experience _____

Vélavöktun ehf.

FOUNDER, CEO

- A new business supplying high tech products that monitor high value assets
- · Increases sustainability for customers by protecting their investments using live GPS tracking and status feedback
- · Solutions that optimize workflow, ensure maximum yield, and automate supervision by maintenance scheduling

Valka ehf.

MECHANICAL DESIGNER

- A local, growing tech company developing complete solutions for fisheries production, maximizing yield
- Responsibilities included design and testing of fish processing systems for sales orders, product maintenance or development projects
- Design projects included custom conveyor belts, a wide variety of dynamic weighing products and automatic frozen fish grading units
- FEM analysis using Solidworks, interdisciplinary collaboration in product development, testing and layout optimization

Össur Corp.

AUTUMN TERM INTERN

- A leading global non invasive prosthetics developer with corporate HQ in Iceland
- · Worked with a lead prosthetic department designer on implementing a new production line and optimizing the product quality
- · Practical prosthetic development work along with prototype building for a functional surfer's foot

Stálvélar ltd.

PART TIME DISTRIBUTION & SERVICE

Support work for a business supplying electro-chemical systems for suppressing marine biofouling

Skills _	
Languages	Fluent in English and Icelandic (mother tongue). Conversational in Italian, basic German knowledge
CAD	High level of practical experience in the use of CAD programs such as Solidworks and PDM, Autodesk Inventor & AutoCad,
	CNC mill programming, Solid Edge and ANSYS stress analysis

Data work Proficient with reports and data presentation via LaTeX, C++ programming, LabView, Matlab, and Arduino as well as Microsoft Office Excel, Word and PowerPoint. Can solve a Rubik's cube in under 2 minutes.

Education

Massachusetts Institute of Technology

PRINCIPLES OF MANUFACTURING

- A specialized MicroMasters program counting towards a graduate degree in Production Engineering
- Courses include Manufacturing Systems, Supply Chain Management, and Strategic Leadership

Reykjavík University

M.Sc. Mechanical Engineering · Courses taken include Precision Machine Design, Finite Element Analysis, Geothermal Drilling, Power Plant Design and Wind Power

- Received a Dean's selection grant for excellent academic achievement. GPA: 9.0/10.0
- M.Sc. Thesis project involved the redesign and testing of a small-scale, high-throughput dynamic scale unit

Kópavogur, Iceland

Reykjavík, Iceland

Jun 2020 - Present

Jun 2018 - May 2020

Reykjavík, Iceland

Online from Reykjavík, Iceland

Aug. 2017 - Dec. 2018

Oct. 2020 - Present

Sævar Örn Einarsson · Résumé

Reykjavík, Iceland

Reykjavík, Iceland

Aug. - Nov. 2015

2012 - 2016



Reykjavík University

B.A.Sc. Applied Mechanical Engineering

- Received an Incoming student Scholarship for excellent academic achievement
- Various extra courses taken including C++ Programming, Numerical Analysis and CAD
- Exchange semester to Bologna, Italy, the spring of 2014. Courses included Automatic Machines & CAD.
- B.Sc. thesis project researching the degradation of Shape Memory Alloy (SMA) springs when electronically actuated. GPA: 8.1/10.0.

University of Bologna

Exchange semester in Mechanical Engineering

- Received an Erasmus Exchange student Scholarship
- Attended Erasmus Intensive Language Course (EILC) for one month in Venice
- Courses included Automatic Machines & CAD

Extracurricular _

The Icelandic University Choir

BOARD MEMBER & PRESIDENT

• Managed choral board; Organizing performances and trip logistics as board member & president

Technis, Student's association

Event Manager

• Planning of events for students in Engineering department and Preliminary studies

Publications

Thesis project for Mechanical Engineering M.Sc.

AUTHOR

- S. Ö. Einarsson, "Development of a dynamic multi-belt scale for IQF sorting", M.Sc. Thesis, University of Reykjavík, 2019. Abstract available at: http://hdl.handle.net/1946/34041
- Redesign and testing of a smaller, high throughput dynamic scale for weighing 150 frozen fish pieces per minute
- · Produced data to show error distribution in weighing individual pieces of frozen fish

International Conference on Axiomatic Design

CO-AUTHOR

- J. Guls, Ó. I. Bjarnason, Ó. Pétursson, S. Ö. Einarsson, and J. T. Foley, "Application of Axiomatic Design in designing Autonomous Underwater photography lighting", *International Conference on Axiomatic Design*, 2016
- Analysis and redesign of underwater lighting system to be compatible with full color, fast exposure images

Thesis project for Mechanical Engineering B.Sc.

AUTHOR

- S. Ö. Einarsson, "Degradation of NiTi springs through electronic actuation", B.Sc. Thesis, University of Reykjavík, 2016. Available at: http://hdl.handle.net/1946/26099
- Development of an automatic Shape Memory Alloy testing frame capable of 10.000+ actuation cycles
- Production of data to predict cyclic actuation tolerance of NiTi actuator springs

References _

Joseph T. Foley

Assistant professor

"Sævar is very devoted to the tasks he is given. He either gives something his complete focus or does not commit to do it in the first place. He also has a good feel for the scope of a problem: when to decompose it into smaller pieces and when to stop trying to refine it further. He works well in a variety of teams. He doesn't jump to conclusions and is a good listener to even seemingly crazy ideas. Sævar is a well-rounded, capable researcher.

I was the advisor for Sævar's Batchelor [sic] thesis. [...] he designed and built a modular SMA spring testing system using low cost materials and employing Axiomatic Design principles. His work was exemplary and he got the highest grade I have ever seen on a BSc at his evaluation."

November 9, 2020

Reykjavík, Iceland

Aug. 2012 - Aug. 2016

Bologna, Italy

Jan. - Jun. 2014

Reykjavík, Iceland Mar. 2019

Reykjavík, Iceland

Xi'An, China

Sep. 2016

Aug. 2016

Reykjavík, Iceland

Feb. 2017

Reykjavík, Iceland

2012 - 2016

Reykjavík, Iceland

Aug. - Dec. 2013