

SARA DOMINGUEZ

Mechanical Design Engineer



Profile

Lifelong learner, self-motivated and resilient with strong teamwork and collaboration skills. I love tackling new challenges and exploring new and creative ideas to solve problems.

Contact



07 62 70 19 71



saraedg14@gmail.com
dosa21ut@student.ju.se



Jönköping, Sweden



www.teck-i.com



www.linkedin.com/in/sara-dominguez-me



www.behance.net/saradominguez2

Portfolio



Languages

English - Native Proficiency
Spanish - Native Language
Swedish - Enrolled in SFI
Korean - Limited proficiency

Career objective

Starting a career as a mechanical or industrial designer in the early stages of product development, where I can apply my skills and knowledge to create innovative and smart solutions.

Education

Jönköping University - Masters in Product Design

120 credits - Design track

Aug 2021 - Jun 2023

Master's program in product design, with specialization in product development focusing on industrial design. Full-time, two-year master's program. Courses with problem-based approach through projects in collaboration with companies.

Latest Industry collaboration projects: *

-Master Thesis of product design- Globe Technologies. Design of a Battery carriage solution to address a product gap. Design of surfaces with ALIAS, renders with KEYSHOT soft goods design with CLO.

-HRC Gripper design - Sabace Project and Volvo Cars. Design of a robotic gripper for EV vehicle assembly. Parts design with SOLIDWORKS, surfaces designed with ALIAS, renders with KEYSHOT, simulations with ROBOT STUDIO.

ITESO - Bachelor's in Mechanical Engineering

Jan 2015 - May 2018

ITESO is officially recognized for academic excellence by the Mexican ministry of education. It has strong collaboration programs with the local industry. The 4-year program focuses on manufacturing and sustainability.

Capstone projects:

-Plastic Injection Mold Design. Design of plastic injection mold for a product made of recycled PP. Part and mold design with SOLIDWORKS, testing with MOLDFLOW.

-Load Bearing Sensors. Design of load bearing sensor for bamboo structure testing. Design and testing with CATIA, programming with ARDUINO

Additional Courses

2022-2023

The Design Sketchbook, Sketch like the Pros.

2020-2021

Google Data analysis Professional Certificate, courses 1-5

2019

SAE Principles of metallurgy

2018

Startup acceleration program 8th Generation, Reto Zapopan

2018-2021

Google for Education Certifications,

Certified coach and Educator Advanced

Invent to learn and maker centered education

2011-2015

Teacher training Courses

Cambridge TKT Teaching English as a second language

ITESM Modern Education Trends I and II

ITESM Competence based learning

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Technical Skills

- Reading and understanding
- technical drawings.
- 2D & 3D modeling.
- Manual Sketching.
- Physical prototyping
- Technical knowledge of production process and machinery.
- Data analysis and Basic Programming skills.
- Graphic and web design

Software

ALIAS - Professional
SOLID WORKS - Intermediate
ONSHAPE - Intermediate
CATIA V5 - Intermediate
KEYSHOT - Professional
PHOTOSHOP - Professional
ILLUSTRATOR - Professional
INDESIGN - Intermediate

TABLEAU - Intermediate

Hobbies

Arts and crafts
Outdoor activities
Board games and puzzles
Cooking and baking

Professional Appointments

Technologies in Education Consulting at Teck-i May 2020- Current

Create technology integration strategies for K12 schools, who want to include STEM, robotics, business, and design skills in their curriculum. Connect with professionals that match with the company's plans. Provide resources, training, and coaching, during program implementation.

Innovation and Creativity Coach at Canadian School Guadalajara August 2018 - June 2021

Designed and launched the school's Maker/STEM education 5-year program, training, and support for 120+ teachers and staff using technology resources. Tightly communicated with IT team to communicate teacher needs to make tech solutions. Managed the school's maker lab that included digital fabrication tools such as 3D printers and laser cutter and robotics and electronic equipment. During the COVID pandemic, created online resources, content and virtual solutions for online teaching.

Science and Robotics teacher at SEK international school October 2016 - July 2018

Professional English teacher 2007 - 2016

Sales and Customer Service Representative 2005 - 2007

Professional Educator Skills

- Instructional Design
- Curriculum development and innovation
- Content and resource creation
- E-learning platforms, digital content, and activities design
- Professional training and public speaking