

RASMUS ROOMETS

MECHANICAL DESIGN ENGINEER/SIMULATION ENGINEER 📍 TALLINN, ESTONIA ☎ +372 56 98 7709

◦ PERSONAL INFORMATION ◦ 🗄 EMPLOYMENT HISTORY

TALLINN, ESTONIA

+372 56 98 7709

rasmus.roomets@gmail.com

Date / Place of birth

1987

TALLINN

Driving license

YES

◦ LINKS ◦

[LINKEDIN](#)

◦ SKILLS ◦

Computer Skills

Fast Learner

Microsoft Office

Time Management

Ability to Work Under
Pressure

Critical Thinking

◦ HOBBIES ◦

Gym, Yoga, Running, Travelling,
Machine Learning

◦ LANGUAGES ◦

English

Estonian

Mechanical Design Engineer / Simulation Engineer at Skeleton Technologies OÜ, Tallinn

August 2020 — Present

RESPONSIBILITIES

Supercapacitor system design

Supercapacitor module design

System sizing and finite element simulations.

Electrothermal simulations

Static Simulation

Magnetic forces simulation

Dynamic Simulations

Fluid domain simulations for heat transfer analysis

Vibration analysis

Seismic analysis for supercapacitor ESS systems.

New generation **superbattery** System Design. (Under development)

PROJECTS:

HITACHI ENERGY

YAMAHA

ABB

SHELL ENERGY

BMW

MITSUBISHI

VOLVO

ABB SINGAPORE

Robotics Design Engineer at JOT EESTI OÜ, Tallinn

February 2019 — March 2020

Meiren Engineering OÜ makes high quality snowplows.(see the products
www.meiren.ee)

RESPONSIBILITIES

Involved with developing new products for Apple Inc.

Work scope

- Product development of Gantry

Systems

- 3D design

- 2D drawings

- Conveyors (belt and roll)

- Prototype manufacturing

- Stress analyses (SW FEM)

- Pneumatic Systems

- Glinching Unit

- Fine Mechanics

- Mobile Systems

- Gripper Units
- Rotary Systems

PROJECTS:

Products (Panasonic, Volkswagen, Mobile companies, Apple Inc)

- XL Router
- ODD shape Routers
- Conveyor Systems
- Gantry
- Gantry head system and gripper design
- Frames and other mechanical design

Aircraft Design Engineer at MAGNETIC MRO, Tallinn, London

March 2017 — March 2019

RESPONSIBILITIES:

EASA Part 21J.

Work scope

- Product development of interior design
- Concept design
- 3D design
- 2D drawings
- Documents for approval- SADD, TSCS, CCR, CERT, DOC; MDL
- Prototype manufacturing
- Conducting static tests with stress engineers

PROJECTS :

(B737, A320, B767, Embraer)

- Galleys
- Class dividers, curtain rails, side dividers
- Complete seat refurbishment, new table designs and armcaps.

Standard projects

- LOPA
- EEL change/installation
- Carpet replacement

Developing products for MAC Interiors which is subsidiary to Magnetic MRO in England.

Mechanical Design Engineer at MUSEKO OÜ, TALLINN

February 2016 — April 2017

RESPONSIBILITIES:

Design and engineering of science centres and museums all over the world.
Solidworks, Autocad, Autocad Inventor

Leading Projects

Responsible of purchasing custom products and items.

PROJECTS :

EZ1- biggest science museum in Europe (Poland)

Civil Engineer at METUST EST AS, Tallinn

February 2015 — February 2016

RESPONSIBILITIES:

Design of aluminium facade constructions. EXPERIENCES GAINED:

Autodesk Robot Structural

Autocad Architecture Schüecal

Schüecad

New experience in civil engineering. Civil engineering standards and some strength calculations.

PROJECTS:

Pärnu Golf Bay clubhouse- facade, doors, roof. <http://www.parnubay.com/>

Offshore Engineer at DECK OÜ

2014 — 2015

RESPONSIBILITIES:

Design of of Offshore constructions. EXPERIENCES GAINED:

ANSYS, ANSYS spaceclaim Experience in offshore constructions

PROJECTS

Pressure vessels, offshore clamps, offshore crane design. Gain in mechanical structural analyzes

www.deck.ee www.e-profiil.ee

Product Development Engineer at MEIREN ENGINEERING, Tallinn

January 2011 — August 2013

Meiren Engineering OÜ makes high quality snowplows.(see the products www.meiren.ee)

RESPONSIBILITIES :

Developing new products.

Manage product certification process. Ensure products are safe enough

Build a new product from scratch.(CAD,FEM,Solidworks, Inventor)

Advise vendors on best practices and methods to correct issues. Participate in quality assurance process.

Participate in creating, launching, or implementing new products. Develop methodology to test and measure products and applications.

Manage future and existing assigned products, set objectives and report on performance. Establish milestone and objectives.

Work with product management team to ensure process is efficient. Conduct periodic product analysis and optimize as needed

Lead different product development projects

PROJECTS:

VTSP; VTS 2400, AS 2500 www.meiren.ee

Woodchipper design, roller conveyor design www.andritz.oy

 **EDUCATION**

M.Sc, National University of Singapore, Singapore

September 2013 — June 2014

Aerospace Engineering

M.Sc, Tallinn University of Technology, Tallinn

September 2012 — 2015

Mechanical Engineering, CUM LAUDE

B.Sc, Tallinn University of Technology, Tallinn

2007 — 2011

Naval Architecture

✿ COURSES

EASA PART 21 - Operational Suitability Data, Leon Paul, EASA

EASA Part 21 Sub Part J DOA General Training, EASA

MIT Introduction to Python Databases, MIT

Festo Pneumatic Systems Training, FESTO AS

Imperial College London Mathematics for machine learning, ICL

Cornell University Engineering Simulations with Ansys 19, Cornell

MIT Fundamentals of Manufacturing Processes, MIT

★ SKILLS

Autocad, Autodesk Inventor, Solidworks, Ansys, Matlab 7.0, Smath, Spaceclaim, Schüecal, Schüecad, Python