The background of the image shows a complex industrial structure. It features a network of dark grey or black pipes and a robust steel framework. A single, bright red pipe stands out prominently, curving through the structure. The sky is a clear, light blue-grey. A semi-transparent brown rectangular box is overlaid on the left side of the image, containing the text.

ROBERT BLOMBERG'S PORTFOLIO

MECHANICAL ENGINEER

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ROBERT BLOMBERG



Vaasa, Finland



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<https://www.linkedin.com/in/xxx>

SUMMARY

Forward thinking Mechanical Engineer with over twenty-five years of experience in product design and development, project management, and quality assurance. Skilled in machining, adhesive bonding, brazing, soldering, and welding with a strong understanding of engineering mechanics, principles, and materials.

EXPERIENCE

Mechanical Engineer (1994 - 2019)

Bystronic Japan, Ltd.

- Support planning, design, and development of tools, engines, machines, and mechanical equipment.
- Meeting with clients and customers to review product specifications and define project scopes of work.
- Oversee installation, operation, and maintenance of equipment for all regional plants.
- Plan workforce utilization, space requirements, and equipment layouts to optimize workflows within security & safety.

EDUCATION

Bachelor of Science: Mechanical Engineering, University of Helsinki, Finland, 1986 – 1990

Master of Science: Mechanical Engineering, University of Tokyo, Japan, 1991 – 1993

PORTFOLIO

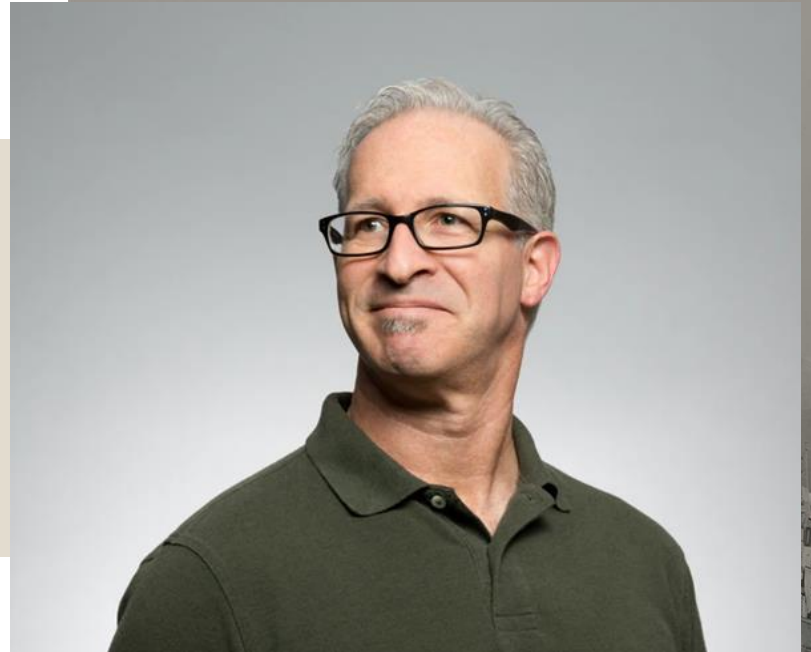
MECHANICAL ENGINEER

Introduction

Welcome and thank you for taking your time to view my portfolio. I hope my experiences and skills would offer value for your company. The goal of this portfolio to give you deeper insight into my twenty-five-year long experience in mechanical engineering.

In Japan I worked in mechanical engineering, becoming a specialist in product design and development, and quality assurance. I am also skilled in machining adhesive bonding, brazing, soldering and welding with a strong understanding of engineering mechanics and materials.

Being highly interested in nature, energy and sustainable development, I have participated in various projects on renewable and clean energy.



Experience // Work tasks // Mechanical Engineer

Product Development
Product Design
Mechanical Techniques
Process Development

Creativity
Planning
Teamwork
Interdisciplinary Skills



TASK 1. Product Development

Support planning, design, and development of tools, engines, machines, and mechanical equipment.

Business Development
Customer Service
CRM
Mechanical and Product Understanding

Interpersonal skills
Negotiation skills
Interdisciplinary skills



TASK 2. Project Definition

Met with client and customers to review product specifications and define project scopes of work.

Quality Assurance
Safety Management
Workflow Optimisation

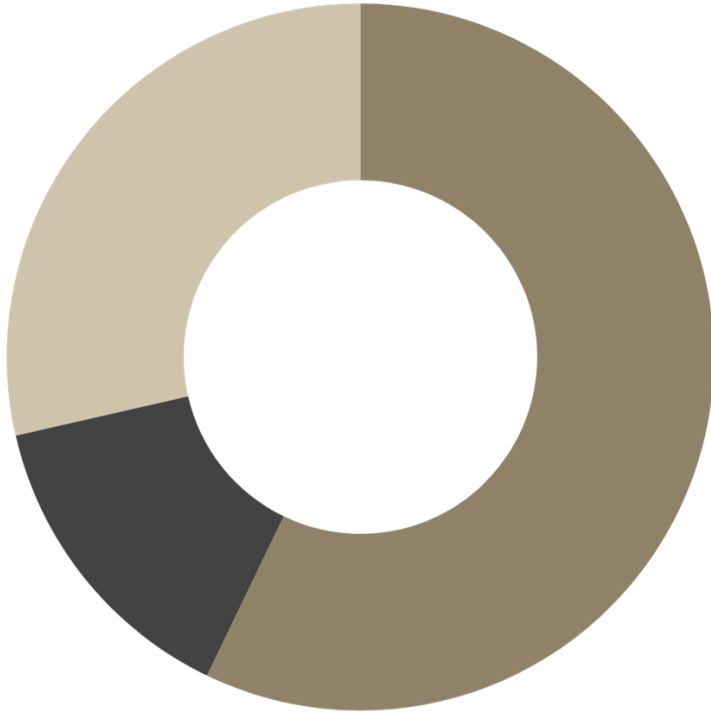
Planning
Interdisciplinary skills
Teamwork
Team management



TASK 3. Project Management

Plan workforce utilisation, space requirements, and equipment layouts to optimise workflows within security and safety.

Skills // Hard skills



Product Design and
Development

60%

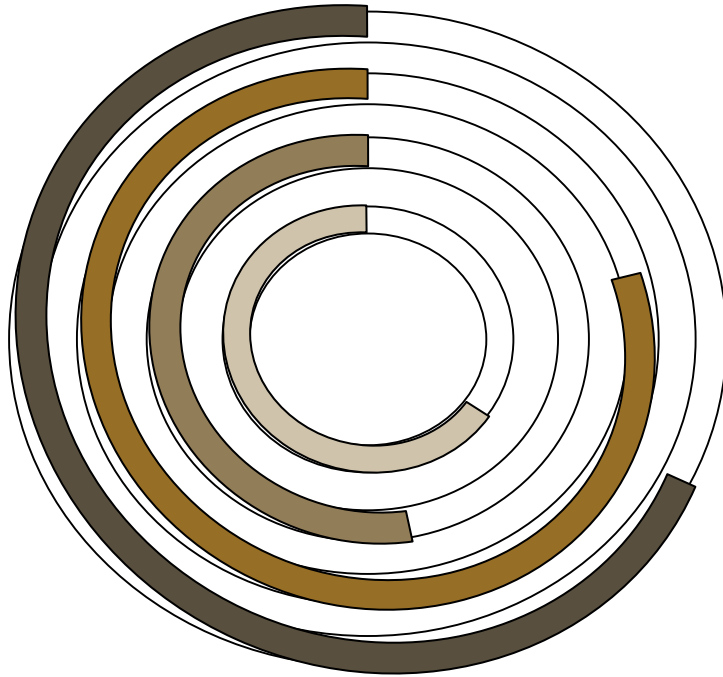
Project Management

30%

Quality Control and
Assurance

10%

Skills // Soft skills



Problem-solving



Interdisciplinary skills



Planning



Leadership and Teamwork

WALKING REHABILITATION AID

PERSONAL PROJECT, 1997

The aim of the project was to design a lightweight lower limb structure using generative idea to be retrofitted on a typical wheelchair.

ARDUINO PROJECT

*PROJECT COORDINATOR,
BYSTRONIC & KOMATSU
ENGINEER TEAM, 2002*

The aim of the project was to design a room to fit the dyno rig with the engine, plenum, cooling system with a real axle with a 3:1 fixed gear ratio.

CUBESAT DESIGN PROJECT

*PROJECT CONSULTANT, PARTNER'S
ENGINEER TEAM, 2007*

The project focused on creating detumbling controller by manipulating a magnetic torquer that generates a magnetic field.

RENEWABLE ENERGY: A WAVE-POWERED GENERATOR

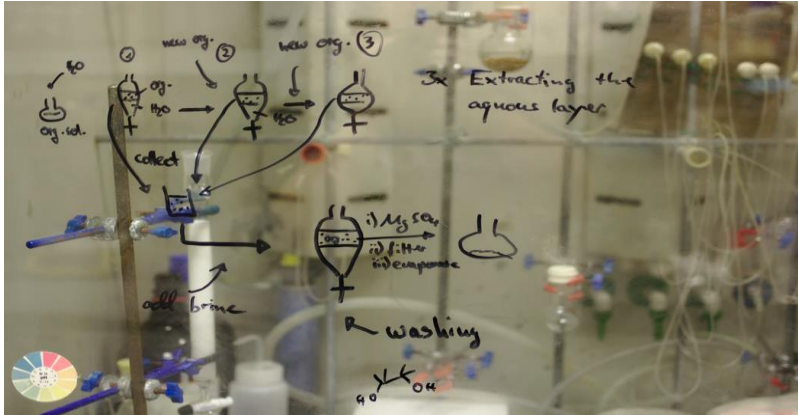
*PROJECT MANAGER, BYSTRONIC ENGINEER
TEAM, 2017*

The design project aimed to develop a wave-powered generator for converting water wave energy to a stable direct current and further stored to power small size electronic sensors and actuators.

Projects

PROJECTS // RENEWABLE ENERGY

PROJECT MANAGER, BYSTRONIC ENGINEER TEAM, 2017



Scaling water channel

Product design and development



Flow visualisation



Process development



Planning



Learning from experience



Interdisciplinary skills



Teamwork



Producing ripples in the water surface

Product design & development



Energy generator



Quality control and Assurance



Interdisciplinary skills



Learning from experience



Problem solving



Resilience



Teamwork





IMAGE REFERENCES

https://unsplash.com/photos/a_PDPUPuNZ8

<https://unsplash.com/photos/6anudmpILw4>

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