 Matilda

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Watz

# SUMMARY

# AREAS OF EXPERTISE

Environmental Management and Decision making

Sustainable Product Development

Industrial Ecology

Systems analysis

# AWards

2018:

Rewarded paper at the International Design Conference - Outstanding contribution

# LANGUAGES

Swedish

English

# ADDITIONAL EDUCATION

## University courses

Risk analysis

Waste Management

Material- and Energy Flow Accounting

Cleaner Production

Ecological Economics

CAD

Matilda is a PhD student at the Department of Strategic Sustainable Development at Blekinge Institute of Technology, Karlskrona, Sweden. He has a MSc in Industrial Ecology (Environmental Engineering) from The Royal Institute of Technology, Karlskrona, Sweden with focus on Systems analysis and Environmental economics. Since June 2017, she has been researching the state of the art of sustainability integration in the product development process and started to explore current practices of requirements management and sustainability within product developing companies.

# Work Experience

2017 – *present* PhD Candidate

Blekinge Institute of Technology

Department of Strategic Sustainable Development

2014 - 2016 Production Engineering Summer Internship

Scania CV AB

Scania Chassis Assembly, Södertälje, Sweden

2013 Supplemental Instruction facilitator

The Royal Institute of Technology

School of Engineering and Industrial Management

2011 - 2012 Truck assembly

Scania CV AB

Scania Chassis Assembly, Södertälje, Sweden

# Education

2017 - present Admission to Third-Cycle Studies

Blekinge Institute of Technology, Karlskrona, Sweden

2015 - 2017 M.Sc. in Industrial Ecology (Environmental Engineering)

The Royal Institute of Technology, Stockholm, Sweden

2012 - 2015 B.Eng. in Mechanical Engineering

The Royal Institute of Technology, Stockholm, Sweden

# PROJECTS

2018 – present Sustainability implementation in the product innovation process: SIP – a toolkit and methodology (<https://bth.se/sip>)

For companies to support and accelerate a transition towards more climate and resource-efficient materials and products, novel approaches and methods are needed in the product innovation process. This project has the aim to create an implementation package with methodology and interconnected methods and tools to systematically integrate and implement sustainability in product development companies. Matilda is responsible for the exploration of current practices of sustainability requirements management within the industry, and the development of a methodology for early phase modelling of relationships between key sustainability criteria and target requirements. The research study is conducted in collaboration with industrial partners, based on a qualitative research design.

2017 – 2018 Strategic, Tactical, and Operational Implementation of Sustainability into the Innovation Process (STOSIP) (<https://www.bth.se/eng/stosip/>)

The project’s main purpose is to support product development and manufacturing companies in integrating and implementing a strategic sustainability perspective in the product innovation process. Within the project, Matilda was responsible for the research track of sustainability integration into product requirements and guidance for down-selection of emerging technologies. She is applying a research design composed of both qualitative and quantitative methods, including literature reviews, interviews, questionnaires, case studies, workshops etc. This work builds on close relationships with industrial partners to maximize the benefit for companies and society.

# PUBLICATIONS

Watz, M. and Hallstedt, S.I. 2018. *Addressing Sustainability in Product Requirements – a systems perspective,* accepted by the NordDesign 2018 conference, August 14-17 2018, Linköping, Sweden.

Watz, M. and Hallstedt, S.I. 2018. *Integrating Sustainability in Product Requirements.* Proceedings of the Proceedings of the DESIGN 2018 15th International Design Conference, May 21-24 2018, Dubrovnik, Croatia, [doi.org/10.21278/idc](https://doi.org/10.21278/idc)

Watz, M. 2017. *Integrating Sustainability Criteria in Product Requirements – an exploratory review.* Research Report. Department of Strategic Sustainable Development, Blekinge Institute of Technology.

Watz, M. 2017. *Residential wood combustion, cancer risk frequency and costs in Sweden: A review of instruments using the MCA methodology*. Master Thesis. The Royal Institute of Technology.

Eriksson, H. and Watz, M. 2015. *Safety management* (Orginaltitel: Säkerhetsfrämjande arbete). Bachelor Thesis. The Royal Insitute of Technology