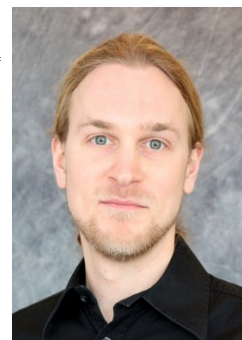


## Ambitions & competencies

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- Practical and pedagogical chemical- / process- / mechanical engineer with R&D experience and high language competency
- Specialization in combustion, fluidized-bed processes, material development and technical design
- More than eight years of experience in international projects
- Ambition to broaden my knowledge within petrochemical and bio-refinery processes



## Work experience & research

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since 11/2014

**Postdoc**, Chalmers University of Technology, Sweden

- experimental testing and development of perovskite-type materials for chemical-looping combustion (combined fluidized-bed combustion and CO<sub>2</sub> separation) of methane (project financed under the Framework Program 7 – Energy of the European Commission [http://cordis.europa.eu/project/rcn/110098\\_en.html](http://cordis.europa.eu/project/rcn/110098_en.html))
- Experimental testing of manganese ores as oxygen carrier for chemical-looping combustion with biomass (project financed by the ÅForsk foundation <http://www.aforsk.se/forskningsrapporter/energy>)

12/2009

– 11/2014

**Doctoral student**, Chalmers University of Technology, Sweden

- Experimental development of chemical-looping combustion with liquid fuels (financed by Saudi Aramco)
- teaching in thermodynamics and energy technology
- supervision of students and bachelor thesis workers

02/2009

– 09/2009

**Master's thesis**, Chalmers University of Technology, Sweden

Experimental testing of ilmenite and mill scale as oxygen carriers for chemical-looping combustion with synthesis gas

04/2007

– 09/2007

**Diploma thesis**, MAN Turbo, Switzerland

CFD simulation and analysis of tail gas expanders (expansion turbines)

03/2005

– 09/2005

**Internship**, SEAT, Spain

Noise analysis of the ventilation / climate system in passenger cars

## Education

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11/2014	<b>Graduation to PhD</b> , Chalmers University of Technology, Sweden Field: chemical / process engineering
10/2007 – 09/2009	<b>Master's program of mechanical and process engineering</b> , Darmstadt University of Technology, Germany Specialization: energy conversion technologies and turbo-engines Degree: Master of Science (M.Sc.) Overall assessment: very good (1.4 on a scale from 1.0 [best] to 4.0 [worst])
03/2005 – 09/2005	<b>Studies of mechanical engineering</b> , FHTW Berlin (now: HTW Berlin), Germany Specialization: technical design Degree: Graduate engineer Overall assessment: with distinction (1.3 on a scale from 1.0 [best] to 4.0 [worst])
04/2003 – 07/2003	<b>Practical training</b> , O&K (Orenstein & Koppel), Germany Acquisition of basic technical skills (general engineering)
07/1999 – 05/2000	<b>Exchange student</b> , Coopersville High School, Michigan, USA

## Language skills

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<b>German</b>	mother tongue
<b>Swedish</b>	business fluent
<b>English</b>	business fluent
<b>Spanish</b>	fluent
<b>Norwegian</b>	advanced skills
<b>French</b>	advanced skills

## IT skills

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<b>MS Office applications</b>	excellent skills
<b>CAD (SolidWorks)</b>	excellent skills
<b>Matlab</b>	excellent skills
<b>FactSage</b>	very good skills

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## Other skills

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**Material analysis**

XRD, SEM/EDX, BET measurement

**Driving license**

classes A & B

**“Gyllene Pekpinne” (Chalmers)** award for distinct pedagogical teaching

Gothenburg, May, 2017