

# MARCUS ULMEFORS

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Malmö, Sweden



## EXPERIENCE

### Chief Information Officer - Energy Engineer

#### Innoventum AB - Solar, Wind, Design

2015 - ongoing Malmö, Sweden

Wind and solar energy with wood construction. Consulting, engineering design, technical sales, business development, software development.

- Requirement specification and design of solar/wind/battery hybrid energy systems for on-grid and off-grid applications.
- Technical sales followed by installation project management (finance, legal, planning, logistics, construction, electrical, IT, monitoring).
- Recruitment of technical staff and supervision of student projects.
- New partnerships with suppliers and resellers in Sweden/Europe.
- Software development of web-based hybrid energy visualization.

### Project Manager and Development Lead

#### Volvo Construction Equipment, Product Design

2014 - 2015 Gothenburg, Sweden

ulmefors.com/projects/volvo-ce

- Translated conceptual design ideas into technical hardware/software specification. Lead new design and development team. Successfully delivered products in new product categories using new processes.
- Project management of Design and Development team for award-winning HMI of Volvo Co-Pilot on-board productivity software: Load Assist, Dig Assist, Compact Assist.
- Technical Lead (design and development) for Volvo GaiaX Concept Excavator successfully presented at Conexpo in Las Vegas 2014. Augmented Reality interface built with Unity3D, Vuforia and iOS.

### Developer (UX/UI)

#### Volvo Construction Equipment, Product Design

2013 - 2014 Gothenburg, Sweden

User Experience and Interface development in Android (Java) and Augmented Reality in Unity3D (C#).

### Freelance: Android Developer

#### Self-employed @ Meetio - Smart Meeting Room Manager

2015 - 2016 Malmö, Sweden

getmeetio.com

Android app development for meeting room management platform. New functionality. User experience design. Spanish/French translation.

## EDUCATION

### Reciprocal Exchange Mechanical Engineering

#### University of California, Berkeley

2011 - 2012 Berkeley, CA, USA

- GPA 4.0/4.0
- Low-carbon energy generation encompassing ocean waves, solar photovoltaics and nuclear fission. Theoretical analysis, numerical simulation and prototype manufacture of ocean energy harvesting devices.

### MEng Mechanical Engineering

#### Imperial College, London

2008 - 2012 London, United Kingdom

- Top 1% in cohort. Three academic awards: Best Third Year Student, Best Second Year Student, Best Group Project in Third Year. [ulmefors.com/awards](http://ulmefors.com/awards)
- Concentrated Solar Power with automatic tracking, Fresnel lens and Stirling motor.
- Energy conversion, product design, manufacture, innovation, finance, business, management.
- Materials, Stress Analysis, Fluid Mechanics, Thermodynamics, Heat Transfer, Mechatronics, Solid Mechanics, Dynamics, Fracture Mechanics, Mathematics, Technical Reporting.

### Self-Driving Car Engineer

#### Nanodegree - [udacity.com/drive](http://udacity.com/drive)

2016 - ongoing

- Nanodegree provided by Udacity, Sebastian Thrun (Stanford, Founder Google X, Head Google Self-Driving Car).
- Machine learning, Deep learning, Computer vision (Detection, Tracking), Sensor Fusion, Localization, Control, Path.
- OpenCV, TensorFlow, Keras, Python

## LANGUAGES

### Swedish

Native



### English

Native



### Spanish

Proficient



### French

Advanced



## PROJECTS

### Volvo CE Co-Pilot app suite

📅 2013 - 2015 📍 Gothenburg, Sweden

🔗 [ulmefors.com/projects/volvo-ce](http://ulmefors.com/projects/volvo-ce)

Product Manager/Lead Developer for user experience design of productivity apps for on-board Android platform. Product range received prestigious 2016 Car HMI Award. Lead for 3 products.

- Load Assist for Wheel Loaders
- Dig Assist for Excavators
- Compact Assist for Compactors

### Volvo CE Gaiax concept

📅 2013 - 2014 📍 Gothenburg, Sweden and Las Vegas, USA

🔗 [ulmefors.com/projects/volvo-ce](http://ulmefors.com/projects/volvo-ce)

Augmented Reality User Interface for Concept Excavator.

- Defining technical solution. Leading development (Unity3D, Vuforia)
- Presenting successful project for global audience at ConExpo 2014 in Las Vegas, NV together with Design Director Sidney Levy

## TOOLS

Python

Java

C#

Javascript

Matlab

Tensorflow

Keras

Android

Linux

Git

Wordpress

Unity3D

SolidWorks

SVN

## REFERENCES

[On request from Volvo CE Design Director](#)

## COURSES

### Business Administration - 30 ECTS

Uppsala University

### Spanish, French - 75 ECTS

Göteborg, Mälardalen University in Barcelona

## AWARDS



### Best group project, 2011

Mechanical Engineering, Imperial College  
Project: Automatic solar tracker concentrating solar energy through Fresnel Lens onto Stirling Engine



### Best third year student, 2011

Mechanical Engineering, Imperial College



### Best second year student, 2010

Mechanical Engineering, Imperial College



### Excellent service to the Union

Award by Imperial College Student Union for contributions as Assistant Captain and Assistant Coach of Imperial College Ice Hockey A-Team



### Exceptional service to the Union

Award by Imperial College, Faculty of Engineering, Student Union for contributions as peer elected Academic Affairs Officer, representing 3600 engineering students in academic topics

## CERTIFICATES

[Oracle Certified Professional, Java SE 7](#)

[Oracle Certified Associate, Java SE 7](#)

[Machine Learning](#)

Coursera Course Certificate Stanford University

[Swedish Driving Licence \(B\) - 2005](#)