

# MATTIA IMPERATORI

## Mechanical Engineer

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## SUMMARY

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I am a mechanical engineer who graduated from the University of South-East Norway. Currently I live in Nijmegen, the Netherlands. My preferred place of employment would be Nijmegen, Eindhoven, Oss, Noord-Brabant, Gelderland, Düsseldorf, Kleve, and thereabout.

My knowledge ranges from many engineering fields, including machineering, manufacturing, systems engineering, microcontrollers and engineering physics. Ideally I would work with challenging cross-discipline projects or research and development in a small-to-medium development group. I take pride in good work.

## EXPERIENCE

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June 2012 -  
August 2014

Service Technician, *DeltaService*

- I was responsible for the testing, service and repair of mobile communication units (mostly cell phones). Other tasks included data gathering, analyzation and logging.

## EDUCATION

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June 2016

Bachelor in Machine Engineering, *College University of Southeast Norway*

*The bachelor in machine engineering focuses on many field. From the education I have gained knowledge in many fields. Among them: Industrial production, including fields like metallurgy, system engineering, machine construction, CAD, advanced simulation (including Finite Elements Method), machineering, breakage analysis and mechatronics. Engineering physics, including thermodynamics, fluidmechanics, hydraulics and power plant modelling. System development including systems engineering and project leadership. Engineering math, including linear algebra and statistics. Further, additional classes have been taken to gain an understanding of writing code and controlling embedded microcontrollers and robotics.*

June 2009

Media Designer, *Idefagskolen*

*Mediadesign focused on print graphics, including handmade and computer made graphics. I specialized in print graphics and illustrations.*

## CERTIFICATIONS

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February 2007	Commercial driver's license class B, <i>Veivesenet Norway</i>
June 2009	Media Designer, <i>Idefagskolen</i>

## LANGUAGES AND SOFTWARE

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### Languages

- Norwegian - Fluent
- English – Excellent technical proficiency
- German – Good technical proficiency
- Swiss-German – Good technical proficiency
- Dutch – Basic

### Software

- C/C++ - Especially knowledgeable at Arduino programming
- Python – General python usage, including numpy and scipy
- SolidWorks – Experienced in CAD-modelling and simulation with Finite Elements Method
- Adobe Suite – Including photoshop, aftereffects and illustrator

### OS

- GNU/Linux – Several years of experience with Linux, especially Gentoo Linux
- Windows – Several years of experience with Windows
- OS X – Some experience with OS X

## FIELDS OF KNOWLEDGE

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### Mechanical fields

- Metallurgy – Knowledge about metals and alloys and their behavior.
- Manufacturing – Knowledge of different metalworking processes, including milling, casting and rolling
- Breakage analysis – Knowledge of breakage and fatigue analysis
- CAD modelling – Knowledge of cad modelling and simulations
- Statics and construction – Knowledge of statics models and construction elements
- Thermodynamics – Knowledge of different types of engineering physics, thermodynamics and power plant models
- Fluid mechanics – Knowledge of the behavior of fluids and usage of hydraulics

### Cross-fields

- Mechatronics – Knowledge of mechatronic systems, both behavior and modelling

- Microcontrollers – Knowledge of Arduino programming and building of automated systems

## PROJECTS

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Dec. 2015 –  
June 2016

### **Automated following robot**

- With Arduino and ultra sound detectors I built a small prototype robot that follows a person with a beacon. The robot will avoid people and objects that may stand in its way, and attempt to automatically find a path to follow the beacon. Grade: A.

Sep. 2015 –  
Dec. 2015

### **Automated maintenance System**

- I and a small group are currently developing an automated maintenance system for a milling station. The system will receive milling heads, and automatically check for wear on inserts and tools, as well as logging this into an external database. If an insert is worn, the system will also replace the worn insert. More can be seen at [amsystems.no](http://amsystems.no). Grade: A.