


# Matti Yli-Ojanperä

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## Experience

### **Founder & CEO**

Bitma Oy

Feb 2019 - Present (2 years +)

Consulting, developing custom software solutions and integrations based on customer needs.

### **A"** **Research Assistant**

Aalto University

Jul 2019 - Present (1 year 7 months +)

Working in a university team researching and developing artificial intelligence solutions with progressive partner companies, to help them participate in demand response electricity markets and use their flexible energy assets in the smartest way. I have been responsible for two Contract Researches for Siemens. First developing a REST API on top of their VPP (Virtual Power Plant) software and second developing IEC60870-5-104 adapter and REST API to connect third party cloud services to their VPP.

### **A"** **Course Assistant**

Aalto University

Feb 2019 - May 2019 (4 months)

Course assistant at the course called Software projects for automation. Students develop virtual production cell using Java, OPC UA and 3D Graphics Engine

### **Software Developer**

Aerion Solutions Oy

Sep 2018 - May 2019 (9 months)

Aerion Solutions is specialized in mobile service and cloud service management and development. The focus is on internal - enterprise to employee - mobility services and solutions. I'm responsible for developing REST API integratons between different cloud platforms based on customer needs.

### **A"** **Research Assistant**

Aalto University

May 2018 - Nov 2018 (7 months)

Developing a teaching project for a new upcoming course called Automation Software projects. Project is implemented in Java and the goal is to teach the basics of OPC UA to students. Also helping in the research of utilizing the information modeling of the OPC UA in manufacturing. My work resulted a paper with a title "Adapting an Agile Manufacturing Concept to the Reference Architecture Model Industry 4.0: a survey and case study". The paper has been published in Elsevier Journal of Industrial Information Integration.



## **Customer Service Representative**

Helkama Rent Oy / Avis and Budget Rent a Car lic.

Mar 2016 - Dec 2016 (10 months)

I worked part-time doing assistive tasks in the rental car business.

Washing cars, delivering cars to customers, picking up cars from customers and transferring cars between offices.

## **ABB Intern**

ABB

May 2015 - Aug 2015 (4 months)

Summer trainee at ABB Drives factory.

My job was to repair faulted ACS800-01 frequency converters.

I was also a part of the team that maintained the testing and assembly systems as well as the soldering robots.

## **ABB Intern**

ABB

May 2014 - Aug 2014 (4 months)

Summer trainee at ABB Drives factory.

My job was to repair faulted ACS800-01 frequency converters and maintain the soldering robots.

## **ABB Intern**

ABB

May 2013 - Aug 2013 (4 months)

Summer trainee at ABB Drives factory.

Assembling ACS800-01 frequency converters.

## **Education**

### **Aalto University**

Bachelor's Degree, Automation Engineer Technology/Technician

2012 - 2019