

# MARCUS JOHANSEN

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## OBJECTIVE

I am determined to develop my knowledge regarding carbon fiber composites, by getting as much experience as possible to build upon the theory gained from my education.

## EDUCATION

2017-08-28 – 2019-06-07

+ **M.Sc. Materials Engineering at Chalmers University of Technology**, Gothenburg, Sweden

2019-01-21 – 2019-06-07

+ **Master's Thesis: Manufacturing and Characterisation of Ultra-Stiff Composite**, Gothenburg, Sweden

*Developing a new manufacturing process for carbon fibre reinforced polymer composites and characterizing said composite using advanced analysis tools. Gaining in-depth understanding of carbon fibres, polymers, manufacturing and scientific analysis.*

2013-09-02 – 2016-05-27

+ **B.Sc. Mechanical Engineering at Chalmers University of Technology**, Gothenburg, Sweden

2016-01-20 – 2016-05-27

+ **Bachelor's Thesis: Impact Resistant Ski Pole of Carbon Fibre Composite**, Gothenburg, Sweden

*Performing research regarding optimal ply lay-up and geometry to reduce impact damage on carbon fibre composite poles for the Swedish national cross-country ski team. Attaining knowledge about design and production of composite materials.*

## WORK EXPERIENCE

2019-06-10 – present

+ **PhD student at Chalmers University of Technology**, Gothenburg, Sweden

*Researching in the area of Structural Composite Batteries. More specifically, research focused on characterisation of lithium ions effect on carbon fibres.*

2018-06-04 – 2018-08-17

+ **After-Market Technical Support at UniCarriers Europe**, Mölnlycke, Sweden

*Advising companies worldwide in technical issues regarding material handling. Gaining experience in after-market routines, international communication under time pressure, technical documentation and shipping logistics.*

2016-06-13 – 2017-05-26

+ **Engineering Intern at FEV North America Inc.**, Auburn Hills, Michigan, USA

*Working with NAFTA vehicle emission testing. Obtaining skills in efficient data processing, critical data analysis, hands-on testing, corporate team work, inter-company team collaboration and international communication.*

2015-05-23 – 2016-06-10

+ **Salesman at USA Summer Internship Program**, Gothenburg, Sweden

*Introducing students from Chalmers and companies to each other and improving already established channels between academia and industry. Improving my speech, sales and negotiation skills.*

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2014-06-10 – 2014-08-15

**+ Product process technician at Saint-Gobain ISOVER AB**, Billesholm, Sweden

*In co-operation with my supervisor responsible for maintaining a steady flow in the process of glass wool manufacturing. Attaining insight and practical experience in industrial processes.*

#### CURRICULAR ACTIVITIES

2014-02-03 – 2015-02-02

**+ Chairman for the Sports Association of Mechanical Engineering at Chalmers University of Technology**

*Head of the executive committee concerning sport events, training and tournaments associated with Mechanical Engineering at Chalmers. Granting experience in leadership and decision making, while satisfying my interest for sports.*

#### TOOL SKILLS

**+ Programming**

*MATLAB*

*VBA*

**+ Computer-aided design**

*CATIA V5*

*ANSYS Mechanical*

*ANSYS Composite PrepPost*

**+ Advanced analysis**

*Scanning Electron Microscopy*

*Differential Scanning Calorimetry*

*Raman Spectroscopy*

*Optical microscopy*

*Polarized light microscopy*

*Thermogravimetric analysis*

#### REFERENCES

**Available upon request**