

# ALEXANDER BARLO

M.Sc. Eng. Manufacturing Technology

@ Alexander.Barlo@bth.se (+46) 73-852 25 75 Annebovägen 2A, lgh 1004  
371 79 Karlskrona, Sweden in linkedin.com/in/alexanderbarlo/



## EXPERIENCE

Ph.D. Fellow | Sheet Metal Forming Simulations

**Blekinge Institute of Technology**

April 2021 – Ongoing Karlskrona, Sweden

- Failure Prediction of Complex Load Cases through Numerical Analysis.
- Digital Manufacturing.

Project Manager

**PDM Technology Group**

August 2019 – March 2021 Aalborg, Denmark

- Management and Implementation of Software Development Projects.
- Special Customer Implementation Project Management.
- Analysis of Engineering Processes

Master Thesis Student

**Volvo Cars Body Components**

February 2019 – June 2019 Olofström, Sweden

- Investigation of Advanced Digital Failure Models for Sheet Metals
- Development and Proposal of a New Forming Limit Concept for Failure Prediction in Sheet Metals.

Engineering Intern

**Volvo Cars Body Components**

September 2018 – January 2019 Olofström, Sweden

- Investigation of Basic Failure Prediction Approaches for Sheet Metals undergoing a Stamping Operation.
- Wide Application of the Commercial Finite Element Code AutoForm™.

## MOST PROUD OF



**AutoForm Poster Award**

Winner of the 2019 AutoForm poster award.



**First Paper Submission**

Paper submitted to the IDDRG 2019 conference.

## STRENGTHS

- Hard-working
- Goal Oriented
- Project Planning
- Industry 4.0
- Problem Oriented Work
- Numerical Analysis
- Digital Manufacturing
- Experimental Work
- Material Characterization
- Data Analysis
- Sheet Metal Forming

## LANGUAGES

- Danish ●●●●●
- English ●●●●●
- Swedish ●●●●●
- German ●●●●●

## INDIVIDUAL HONOURS



**Winner of the 2019 AutoForm Poster Award**

Awarded for my poster contribution titled 'Investigation of a Bending Corrected Forming Limit Surface for Failure Prediction in Sheet Metals' at the 2019 Forming Technology Forum (FTF) conference.

## CORE EDUCATION

---

Lic. Eng. Mechanical Engineering

 [Blekinge Institute of Technology](#)

 Apr 2021 – Ongoing

 Karlskrona, Sweden

---

M.Sc. Eng. Manufacturing Technology

 [Aalborg University](#)

 Sept 2017 – June 2019

 Aalborg, Denmark

---

B.Sc. Eng. Mechanical and Manufacturing Engineering

 [Aalborg University](#)

 Sept 2014 – June 2017

 Aalborg, Denmark

---

Technical High School

 [TS Silkeborg](#)

 Aug 2011 – June 2014

 Silkeborg, Denmark

---

## SUPPLEMENTARY EDUCATION

---

Entrepreneurship 101

 [Technisches Universität Wien](#)

 07.07.2016 – 17.07.2016

 Vienna, Austria

---

Technical High School (Exchange Program)

 [Widen Bay Tafe](#)

 June 2012 – December 2012

 Hervey Bay, Australia

---

## PUBLICATIONS

---

### Articles

- A. Barlo, M. Sigvant, and B. Endelt (2019). "On the Failure Prediction of Aluminium and Dual-Phase Steel Alloys Exposed to Combined Tension and Bending". In: *IOP Conference Series: Materials Science and Engineering* 651.

### Conference Proceedings

- A.Barlo, M. Nør, et al. (2019). "Self-Learning Process in Smart Factories: Deep Reinforcement Learning for Process Control of Brine Injection". In: *Proceedings of the Flexible Automation and Intelligent Manufacturing, (FAIM 2019), Limerick, Ireland, 24-28 June 2019*. Limerick, Ireland: Flexible Automation and Intelligent Manufacturing.
- A.Barlo, N. Manopulo, et al. (2019). "Investigation of a Bending Corrected Forming Limit Surface for Failure Prediction in Sheet Metals". In: *Proceedings of the Forming Technology Forum, (FTF 2019), Munich, Germany, 19-20 September 2019*. Munich, Germany: Forming Technology Forum.

## REFERENCES

---

**Dr. Mats Sigvant**

@ Volvo Cars Body Components

✉ mats.sigvant@volvocars.com

Bruksgatan 1

293 38, Olofström, Sweden

---

**Benny Endelt**

@ Aalborg University

✉ endelt@mp.aau.dk

Fibigerstræde 16, Room 4-111

9220 Aalborg Ø, Denmark

---

**Nikolaj Mark Andersen**

@ PDM Technology Group

✉ nma@bluestarplm.com

NOVI Science Park

9220 Aalborg Ø, Denmark

---

# VOLUNTARY WORK

---

## Social and Participants Responsible

### 2019 BEST Aalborg Summer Course

📅 November 2018 – August 2019    📍 Aalborg, Denmark / Olofström, Sweden

Responsible for planning and coordination of social activities, participants travel coordination, and visa applications for non-EU citizens.

---

## Temporary CFO and COO

### AAU Racing

📅 March 2018 – September 2018    📍 Aalborg, Denmark

In charge of the Business Plan Presentation at the 2018 Formula Student Germany event.

---

## Vice President of Fundraising and Corporate Relations

### Board of European Student of Technology (BEST), Local Group Aalborg

📅 August 2017 – August 2018    📍 Aalborg, Denmark

In charge of grants applications to fund group activities, contact with external partners, and securing new external partners.

---

## Public Relations Responsible

### 2017 BEST Aalborg Summer Course

📅 November 2016 – July 2017    📍 Aalborg, Denmark

Responsible for design and order of course merchandise and media coverage coordination.

---

## Student Representative

### Board of Technical College Silkeborg

📅 August 2012 – August 2014    📍 Silkeborg, Denmark