# ANTHONY CLERC

Software Tech Lead | Digitalization | Manufacturing

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### **SUMMARY**

I am committed to the green transition and inspired by the potential of sustainable technology to drive meaningful change, without discarding the need for everyone to make an effort. I embrace acquiring new skills and technologies to broaden my horizons. I am driven by the exciting possibilities that innovation and discovery bring. Beyond my professional pursuits, I am an advocate for fitness and outdoor activities, as I believe in the importance of maintaining a balanced and active lifestyle.

Professionally, I am an experienced Software Tech Lead with over 6 years of expertise in industrial connectivity, factory digitalization, and large-scale system integration. Specializing in designing and implementing robust software solutions for manufacturing environments, with a proven track record of deploying edge software across 1000+ devices in production settings. Combines strong technical knowledge in cloud infrastructure, containerization, and edge computing with effective leadership skills to build and mentor high-performing engineering teams.

## **KEY ACHIEVEMENTS**

#### **Q** Traceability Software Development

Developed traceability software for complex battery manufacturing processes, improving quality control and process improvement.

#### Fullstack MES Engineer

Played a pivotal part in connecting the technical aspects of automation with cloud development.

#### **Factory Digitalization Success**

Designed and implemented digital frameworks in over 1000 machines across multiple factories. Worked with OPC Foundation and VDMA on machine interface standardization.

#### 🛃 🛛 Team Growth

Built, mentored, and led a team of 5+ software engineers responsible for the development and commissioning of edge software.

# EXPERIENCE

09/2023	Software Tech Lead			
Stockholm, Sweden	Northvolt - Forward Deployed Engineering			
	<ul> <li>Developed and implemented connectivity standards for battery production processes</li> <li>Led the design and integration of equipment across various production lines, including Formation and Aging, Cell Assembly, and Slurry Mixing, for Northvolt battery gigafactories expansions</li> <li>Assisted in the establishment and scaling of a digitalization team within a joint venture company</li> <li>Designed and developed traceability software tailored for battery manufacturing</li> <li>Mentored, onboarded and supported several software engineering teams, fostering their growth, integration and development</li> </ul>			
06/2022 - 09/2023	Software Engineering Manager			
Stockholm, Sweden	Northvolt - Digital Blueprint			
	<ul> <li>Managed a team of software engineers focusing on the productization of factory digitalization and integration frameworks currently deployed in over 1000 individual machines in Northvolt's production lines</li> </ul>			
10/2021 - 06/2022	Software Team Lead			
Stockholm, Sweden	Northvolt - Digital Blueprint			
	<ul> <li>Responsible for hiring and leading a team of software engineers tasked with the development, implementation, and verification of technical specifications for factory connectivity</li> <li>Spearheaded the development of edge software designed to facilitate large-scale factory integration</li> <li>Deployed and validated the software at the first Northvolt Gigafactory</li> <li>Participated in the commissioning of the inaugural giga-scale production lines</li> </ul>			
09/2018 - 10/2021	Software Engineer			
Stockholm, Sweden	Northvolt - Automation Department			
,	• Developed from the ground up state-of-the-art edge software in Golang, successfully deployed across over 1,000			
	devices <ul> <li>Created an API validation tool to ensure supplier integration aligns with REST API definitions in OpenAPI, resulting in</li> </ul>			
	a significant reduction in commissioning and testing efforts			
	<ul> <li>Designed comprehensive technical specifications for both edge layer and cloud integration</li> <li>Oversaw the integration and commissioning of various battery manufacturing equipment</li> </ul>			
	<ul> <li>Supported the initial deployment and development of Northvolt's innovative Manufacturing Execution System (MES)</li> </ul>			

EXPERIENCE 08/2017 - 02/2018 Stockholm, Sweden	• As a tea	Teaching Assistant <b>Kungliga tekniska högskolan</b> • As a teaching assistant in the courses of mechatronics and embedded systems, my responsibilities included supervising, assessing, and supporting students during laboratory sessions.					
EDUCATION 01/2016 - 01/2018 Stockholm, Sweden	Kungliga	tekniska högskolan	onics, robotics and automation	and software engined	ering		
<b>01/2012 - 01/2015</b> Neuchâtel, Switzerland	• Microer	<ul> <li>Bachelor of Science (BS)</li> <li>Haute Ecole Arc - Engineering</li> <li>Microengineering with a major in Industrial Engineering</li> <li>Ranking A</li> </ul>					
LANGUAGES French Native	••••	English Proficient					
SKILLS AWS Golang	MES Kuber	netes Rest APIs	Industrial Internet of Things (IIoT)	Digitalization	OPCUA		
Industrial Manufact	turing Lead	ership					

# PROJECTS

#### Mechatronic Sculptures: Karl Dunér Contemporary Art and Design Exhibit

🛗 03/2018 - 08/2021 🛛 🛛 Stockholm, Sweden

- Attps://www.karlduner.com/past-exhibit#/the-island-2020-at-si-paris/
- Supported the development of the mechatronic software for kinetic sculptures by an artist's work for an exhibit at a museum for contemporary art and design
- Developed using a wireless ROS network and ESP32 nodes in C++
- Monitoring of the robots with self developed Flutter App and open source software (Grafana, Influx, ...)