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			
	 Developed and implemented connectivity standards for battery production processes 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 Assisted in the establishment and scaling of a digitalization team within a joint venture company Designed and developed traceability software tailored for battery manufacturing Mentored, onboarded and supported several software engineering teams, fostering their growth, integration and development 			
06/2022 - 09/2023	Software Engineering Manager			
Stockholm, Sweden	Northvolt - Digital Blueprint			
	 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 			
10/2021 - 06/2022	Software Team Lead			
Stockholm, Sweden	Northvolt - Digital Blueprint			
	 Responsible for hiring and leading a team of software engineers tasked with the development, implementation, and verification of technical specifications for factory connectivity Spearheaded the development of edge software designed to facilitate large-scale factory integration Deployed and validated the software at the first Northvolt Gigafactory Participated in the commissioning of the inaugural giga-scale production lines 			
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 Created an API validation tool to ensure supplier integration aligns with REST API definitions in OpenAPI, resulting in 			
	a significant reduction in commissioning and testing efforts			
	 Designed comprehensive technical specifications for both edge layer and cloud integration Oversaw the integration and commissioning of various battery manufacturing equipment 			
	 Supported the initial deployment and development of Northvolt's innovative Manufacturing Execution System (MES) 			

EXPERIENCE 08/2017 - 02/2018 Stockholm, Sweden	• As a tea	Teaching Assistant Kungliga tekniska högskolan • 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		
01/2012 - 01/2015 Neuchâtel, Switzerland	• Microer	 Bachelor of Science (BS) Haute Ecole Arc - Engineering Microengineering with a major in Industrial Engineering Ranking A 					
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, ...)