

# LARS JØRGEN ALSTAD FLEM

## SENIOR ELECTRO-AUTOMATION ENGINEER

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## EXPERIENCE

### Senior Automation Engineer

#### Moreld Apply /via Applica

📅 September 2024 – Current 📍 Stavanger, Rogaland

- Revising SCDs, HMIs and other documentation based on P&ID input.
- Finding platform documentation in ProArc, SAP, STID and STID LOOP
- Navigating platforms in Ayelix and Naviswork.

### Senior Electro-Automation Engineer

#### Red Rock

📅 April 2023 – September 2024 📍 External, Rogaland

- In addition to previous responsibilities at Red Rock Marine with new main focus of SW:
- Structured text based programming of cranes in TwinCAT for Beckhoff PLCs and configuration of HTML/CSS/JS based HMI solution.
- Basic setup of SQL database for alarm system.
- Network configuration of crane systems.
- Tuning and troubleshooting crane kinematics and tuning 3D motion compensation - Been a part of 4 deliveries of these cranes.
- Technical training of crew on how to operate our 3D compensated cranes.

### Senior Control System Support Engineer

#### HMH - Formerly MHWirth

📅 September 2022 – April 2023 📍 Stavanger, Rogaland

- Served as the support lead for rig hoisting control system.
- Troubleshooting drilling rig control systems based on Siemens Step 7 and Cimplicity HMI software.
- Provided technical assistance to Single Account Managers (SAMs).
- Prepared quotation estimates for technical upgrades to drilling systems. Estimating hours and part costs.
- Managed software updates and changes for drilling equipment across multiple rigs from several customers.

## EDUCATION

### B.Sc. Mechatronics

#### University of Agder

📅 Aug 2016 – June 2019

Thesis title: Electronic Gear Shift

### 1 Year course: Business Management

#### NTNU Ålesund

📅 Aug 2015 – June 2016

### High School: STEM with Automation

#### Haram Videregående

📅 Aug 2010 – Dec 2014

### Trade certificate: Automation

#### Rolls-Royce Marine

📅 Aug 2010 – Dec 2014

## COURSES

### Ex og Exi grunnleggende

📅 Valid to: Nov 2024

### FSE Skip - lav- og høyspenning

📅 Valid to: Oct 2024

### HLR - Praktisk øvelse

📅 Valid to: Nov 2024

### Grunnleggende Sikkerhetskurs (GSK)

📅 Valid to: May 2028

## CERTIFICATES

### Driver Licence Class B

### A6 - Personløfter / Lift

### Sjømannsattest

## Electro-Automation Engineer, Later Team Lead

### Ocean Infinity Marine - Formerly Red Rock Marine

📅 June 2019 – Sept. 2022 (Bankruptcy) 📍 Kristiansand, Agder

- Planning, designing and executing electrical systems on cranes, davits, service platforms, and operator stations.
- Coordinating with the other disciplines to achieve peak performance, and reliability, while reducing cost of delivered products.
- Interpreting regulations and ensuring compliance with class and relevant standards.
- Led the electrical team in adopting streamlined processes and quality assurance practices to improve system functionality and reduce costs.
- Involved in delivery of CBM vibration measurement system for older cranes.
- On/offshore commissioning of prototype products. Coordinating with workshops, yards and clients to ensure timely delivery.
- Designed IECex and ATEX tailored solutions for specific project needs.

## Assembler, Test Engineer, Later Spare Parts Coordinator

### Kongsberg Maritime - Previously Rolls-Royce Marine

📅 August 2010 – June 2015 📍 Longva/Brattvåg, Møre og Romsdal

- Manufacturing the Kongsberg's Helicon X3 propulsion system, Dynamic Positioning System and ACON Alarm system among others.
- Troubleshooting and doing FATs of Helicon propulsion systems.
- Training apprentices in the field of automation
- Doing the utmost to uphold customer satisfaction and perception.
- Generating additional sales based on product knowledge.

## PROJECTS

### Chief Electronics Officer

#### Align Racing

📅 June 2018 – June 2019 📍 Grimstad, Aust-Agder

- Leading a team of 13 students with various electronics knowledge through designing, prototyping, manufacturing and tuning stage of delivering the full electronics suite of a formula student racecar.
- Delegating responsibilities based on capabilities and motivating the students to balance their voluntary efforts to build the racecar with their studies.
- Ensuring compliance with racing regulations and mitigating risk during project.

### Leader of Mekaunikum

#### Organisation for all UiA mechatronics students

📅 March 2017 – March 2018

- Facilitation social growth between student and a connection to relevant businesses

## MOST PROUD OF



#### Company's first 3D crane

Being part of an exciting team pushing the boundaries of load handling with producing the market's first viable 3D crane.



#### Top Grade Letter of Certification

Graduated as an automatician with the highest grade possible



#### Formula Student UK

Leading the electronics team in making a great Formula Student racecar, placing 13th of 90 teams from across the world, at just our second year in the competition.

## STRENGTHS

Curious

Result driven

Motivator

Leadership Experience

Team Player

PLC

Programming

Twincat/Beckhoff

Networks

Firewall

Electrical Power Systems

Instrumentation

Basic Hydraulics

Commissioning

3D-Printing

Testing/Troubleshooting

Autocad

Solidworks

Fusion360

## LANGUAGES

Norwegian



English



Structured Text(ST)



C/C++



Python



## REFERENCES

References will be provided at request. This is to respect the time of my previous colleges and give them notice that they might be contacted. Thank you for respecting this.