

Curriculum Vitae

Lars Soldagg

Profile

I am a project manager with a strong track record of delivering major projects. My experience includes HW projects, process improvement and organizational change, having led over 20 projects of various sizes including some with 20 people based in different sites and countries. I am used to working in the entire project and product lifecycle, from concept to aftermarket feedback. I am looking to use my project and change management skills to benefit organizations in the embedded market. I prefer using SCRUM in my projects, as I have used it with great success on several quality projects and since I have started to use it I must say it is much more fun being a project manager.

I am also a specialist within cable design. I have a strong track record of delivering and designing cables for embedded systems running on earth moving machines such as excavators, dozers and pavers.

Work experience

2013 Embedded Quality Consultant at Soldagg Konsult AB

Consultant with focus on project management, embedded computer design and cable development; providing my services as Cable design specialist, Project manager and Quality assurance.

2010-2013 Quality coordinator at Mikrofyn A/S, Odense DK

As a project manager, I led quality improvement projects at the Hexagon Group Company Mikrofyn A/S, manufacturer of hardware for Machine control systems; they are European market leader in 2D-machine control systems.

2003-2010 HW-manager at SBG, Svensk Byggnadsgeodesi AB

Responsible for development, production, sales and service for machine control hardware. SBG designs and manufactures software and hardware for surveying and machine control applications; world market leader in excavator 3D-machine control systems.

Key achievements

Management of hardware

Design a new Machine Control Computer, GeoROGv8

Project manager and product owner for this new machine control computer, which we built from scratch with new electronics and mechanics. I put together the design specification and coordinated jobs from at least ten different sub suppliers. The quality of the new GeoROGv8 had features and performance that the market took so well that it gave the company a huge advantage in the market and improved sales by 400% the first year. The quality raise from 40% return rate on the previous generation to 1% on the new GeoROGv8.

Curriculum Vitae

Enabled large expansion on Machine control hardware

During my years as HW-manager I managed the expansion, enabling growth from sales of 25 units per year in 2003 to 1000 units in 2010. To achieve this I:

- Managed production growth, by using production partners.
- Used partners for all core development and put everything together as a project manager.
- Expanded the internal service and sales department.
- Set up external service centers in Australia, Poland and Norway to manage service on isolated key markets.
- Improved quality (from 40% return rate to 1%) and implementing processes (Service process, Selling process, Aftermarket process etc).

New computer concept for Leica Paving Solution

Improved the machine control computer GeoROGv8, so that it could be used for Leica Geosystems Paving system "PaveSmart". I worked as hardware coordinator and expert in the design ware.

- Assisted Leica Geosystems while creating the concept.
- Designed the new external cables and other accessories, such as suitcase, brackets etc.
- Performed the EMC and environmental tests.
- Performed the system test to see that interfaces and cables worked as expected.
- Wrote all needed documentation.

Result: The new system provided the stability which Leica Geosystems always had wanted but never received. They reduced their service cost with 70% and could focus more on sales and improve sales with 40% the first year with the new system.

Computer (GeoROGv6) improvement project

Project manager and product owner, when reducing EMC disturbance from the machine control computer GeoROGv6. I took over responsibilities when I started to work for SBG in 2003.

The new design resulted in a system with acceptable EMC disturbance and the system was approved for CE-marking.

Electronic repairs and HW-SW analysis

During my seven years as HW manager at SBG I was always working with or in charge of the HW-repair department. This has given me a great knowledge about how electronics should be built and protected to tolerate an harsh environment such as heat, dust, water, vibrations and strong hard hands. Finding root causes to tricky HW-SW relations, writing repair manuals, educating repair personal and setting up new repair centers where a part of my daily work.

Cable design and quality assurance of cables

Machine control cable design

During 2014 [GARAM](#) has hired me as an expert consultant within cable design and quality assurance of the new cables they design for machine control products. These cables are to withstand a really harsh environment on earth moving machines and my experience has helped them doing the right design and test from the beginning, which makes their customers really satisfied.

Curriculum Vitae

New cable setup for the [Leica PaveSmart 3D](#) product

It was a real challenge to create this extreme robust cable system for machines in and an extreme harsh environment. Cables are placed all over the machine, as they are to connect the main computer with slope sensors and GPS placed on different places on machine body.

Cable design for the [GeoROG](#) machine control system

When I took over the responsibility of the [GeoROG](#) system I also took over responsibility of all cables included. In the early years 2003-2006 I started up producing the cables myself, but as we grew bigger I outsourced more and more. During my production years I build up a sound knowledge about how a cable should, and shouldn't, be designed. By the end of my career at SBG (2010) I had improved their entire cable setup for the machine control system and outsourced all the cable production to cable production specialists, such as [GARAM](#).

Quality improvement and organizational change:

ISO 9001 implementation, Mikrofyn A/S

I was part of the implementation team where I was responsible for creating all procedures needed when we build up this system from scratch. My biggest contribution was to change the heart and minds of the employees.

Before: An organization with no experience of processes and improvement plans. It was up to the employees themselves what processes to follow and if improvement was needed.

After: A 200 employee organization where all worked according to processes and procedures and the mindset of the employees had changed dramatically (which was the biggest challenge).

Quality improvement projects, Mikrofyn A/S

I lived in Odense for six months during an intense phase where I was project manager for five different projects at the same time. On all the below project I used SCRUM which was a great help to get the project delivered on time.

- **Organization improvement Technical Service:** Project manager for a project to help Technical Service to reduce their lead time from 3 months to 7 days. I broke down their processes in detail and found out what to improve to reach the target. 6 months later the target was reached.
- **Control over test equipment:** Project manager for a project to create a structure around test equipment. We implemented a documentation procedure, created a cross functional test group and implemented a quality improvement procedure for test equipment.
- **External service centers:** Project manager for a project where we brought up external service centers for two products. Created procedures for how to introduce further products.
- **Delivery and shipment control:** Project manager for a project to improve shipment quality. Procedures and specific packing techniques where introduced.
- **MPC1350 improvement project:** Large quality improvement project for the machine control computer MPC1350 (1500-2000 systems sold per year). My role as Quality assurance was to monitor component choices from a quality perspective, to create a test plan to secure the quality goals and to assure all relevant legal requirements were fulfilled.

Curriculum Vitae

Voluntary work

I have always taken a great responsibility within the orienteering clubs I have been running for.

2013 Organizer of Biathlon orienteering World Cup, Gnesta

I was project manager for this three-day event where I coordinated everything such as: legal authorities, building the competition center, creating orienteering courses, promotion of the competition, contact person for the runners etc. It was a great success both for the runners and for the club as we did a 50kkr profit.

2011 Manager for the Biathlon Orienteering section, OK Klemmingen

I organize trips for competitions and training activities and also fund raising activities to gather more money for our goal to get more youths to try the sport.

2002-2008 Responsible for training and competition activities, Tumba-Mälarhöjden OK

Manager of the training and competition group, where we organized competition trips, training and training camps.

Education

1998-2003 Master of science in Electronics at KTH (180p)

Specializing in communication systems, thesis in electronics design at Ericsson ATM.

Languages

Swedish native, English fluent, German and Danish moderate.

Other

Drivers license for car (Swedish).

References

Available upon request.