



Lars Kallryd

CV

Wisdom is to the mind what health is to the body.

Education

- 2007--2010 **Technical gymnasium education**, Volvo gymnasium, .
- 2011--2014 **B.Sc.**, *Mechanical Engineering*, Chalmers, .
- 2014--2015 **M.Sc.**, *Naval Architecture and Ocean Engineering*, Instituto Superior Técnico, .
- 2015--2016 **M.Sc.**, *Naval Architecture and Ocean Engineering*, Chalmers, .

Master thesis

- Title* Hybrid propulsion system simulation and control
- Supervisors* PhD Francesco Baldi, Andrea Coraddu
- description* To simulate and optimise the design and control of the hybrid propulsion system (including diesel-electric propulsion and batteries) for tugs.

Bachelor thesis

- Title* Självspelande labyrintspel, Autonomous maze game
- Supervisors* Prof. Bo Egardt
- description* The development of an automated marble maze. A ball is guided through the maze with optical feedback from a camera.

Ryttaregatan 1B – 41517 Göteborg – Sweden

📞 +738053660 • ✉ lkallryd@gmail.com • 🌐 www.lkallryd.github.io

1/3

Internships

Volvo Trucks Technical team, Gent, Belgium

Duration For 1 month in the autumn of 2009

description Received calls from retailers of Volvo trucks in the Nordic region and English speaking countries. I translated information about the problem to English for the technicians at the office

Volvo Trucks Modellverkstaden, Skövde

Duration 7 weeks, spring of 2010

description Worked with maintaining the mold models for the 13/16 litre engine. Controlling advanced NC mills, machining molds and machine special orders from companies outside of Volvo Trucks.

Experience

2010–2011 **Assembly line**, *Volvo Cars*, Skövde.

The external assembly of the DW10c engine

2011–2016 **Machine operator**, *Volvo Cars*, Skövde.

Work during summer/winter vacations as machine operator of cylinder heads for the i5d engine

2016-2017 **Test cell operator**, *Volvo Cars*, Gothenburg.

Operator of a test cell for petrol engine functional testing

2017-present **Calibration engineer**, *Volvo Cars*, Gothenburg.

Calibrator of torque model for petrol engines

Detailed achievements:

- Achievement 1: 2018 Torque model GEP3 Volvos 1.5l 3 cylinder petrol engine
 - Torque model verification high temperature and altitude
 - Certification and test support

- Achievement 2: 2019- 2020 Torque model VEA Generation 3 MP/HP (197hp/300hp) 2l 4 cylinder engine
 - Complete data collection in test cells, modelling and analyse
 - Calibration of VVT set points for optimal fuel consumption
 - Optimal ignition set points (MBT base map and compensations)
 - Various ambient condition compensations:
 - Cold climate work Kiruna/Jokkmokk
 - High temperature Phoenix, AZ and Upington South Africa
 - High altitude Breckenridge CO and Pontresina Switzerland
 - Engine power certification and drivability work i.e gearshifts torque reductions etc

- Achievement 3: 2020 - present: Torque model VEA Generation 3 LP (197hp) 2l 4 cylinder engine.

Languages

Swedish	C2	<i>Native language</i>
English	C2	
Spanish	A2	<i>Studied during high school</i>
Portuguese	A1	<i>Studied during exchange</i>
French	A1	<i>Taken night classes in french at Folkhögskolan</i>

Computer skills

OS	Microsoft Windows, Mac OS, Linux
Calibration software	ComTest, Orion, AVL Indicom and Concerto, Etas INCA and MDA
Office software	Microsoft Office package, LaTeX
Coding	MATLAB, Simulink, Python
CAD software	Catia V5, Autodesk Alias, Rhinoceros 3D

Regards

Lars Kallryd