

JOHAN JOHANSSON
CURRICULUM VITAE

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Social and positive person with a Master of Science in Engineering Physics degree with a passion for computers, electro-technology and high voltage cables. I have four years of working experience from the IT-sector in both motherboard development and as an IT-consultant. I also have eight years of working experience as a Test Supervisor/Engineer at a high voltage test lab performing mechanical and electrical testing on high voltage cables.



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Working experience

Since
Mar 2010

ABB / NKT High Voltage Cables AB – Test Supervisor/Engineer

As a Test Supervisor/Engineer at the high voltage laboratory I have performed electrical and mechanical testing on high voltage cables. The cable types I have worked with the most has been long AC and DC submarine cables with extruded insulation in the voltage range up to a couple hundred kV. The tests have both been of internal nature and more commonly of the types Sample Test, Prequalification Test and Type Test. I have several times been testing cables of world record designs concerning size, current and power.

As a Test Supervisor/Engineer I have been part of the whole testing-chain from planning, preparing, assembling, testing and evaluating to finally reporting the result. The electrical tests have mostly consisted of AC-, DC-, heating cycling-, partial discharge-, $\tan \delta$ -, resistivity measurement-, lightning and switching impulse-tests. The mechanical tests have mostly consisted of tensile-, bending-, tensile and bending-, elongation-, torsion-, clamping-, hang-off-, longitudinal and radial water penetration-tests.

The language used in reports and instructions have mainly been English.

Feb 2007-
Jan 2010

Capgemini AB – IT-consultant

Capgemini AB is a large and well renown IT-consulting company that has given me good understanding of how to work in different processes, keeping delivery dates, produce quality and safety while often working under hectic conditions.

The work has mainly consisted of, based on customer demands, writing detailed implementation specifications, implementing computer logic and to finally writing user and maintenance manuals.

The programming language used has mainly been C++ on UNIX based systems. The language used in reports and instructions have mainly been English.

- Nov 2005-
Jan 2007 **Hectronic AB – Hardware development**
At the Uppsala company Hectronic AB I mainly worked with program development of hardware chips using the hardware language VHDL. The VHDL language development was central in a project that developed a test platform for motherboards using FPGAs (small programmable IC-chips).
I have also during 3 months designed a printed circuit board with a PIC micro-controller, CAN-bus, I²C-bus and optically insulated electrical inputs.
- 2001 **ABB High Voltage Cables AB – Process operator and quality monitor**
Summer practice to operate and to secure the quality of the oil impregnation process of high voltage cables. The work has also included operation of equipment such as vacuum-, water- and oil-pumps.
- Fall 98 **ABB High Voltage Cables AB – Cable armoring process operator**
For three and a half months I worked in the lead sheath and wire armoring processes of high voltage cables. The work has been of 5-shift type and has included start-up, adjustment, surveillance and material-supply at the factory process lines applying lead- and armoring-sheaths on the cable core.

Education

- Spring 14 **Hunting license**
Hunting license for large wild animals. Medborgarskolan, Karlskrona.
- Fall 12 **Planning of complex projects (course 287), 32h**
Learning Tree International, Stockholm.
- Spring 12 **High voltage technology for ABB, 40h**
Chalmers Professional Education, Karlskrona.
- Fall 11 **UGL – Development of group and leader skills, 40h**
Gällöfsta Ledarutveckling, Stockholm.
- Fall 10 **Education for maneuvering of overhead cranes, 32h**
Olofströms Truck & Traversförarutbildning AB, Olofström.
- Fall 09 **Project management (course 296), 32h**
Learning Tree International, Stockholm.
- Spring 08 **IP-telephony (course 461) , 32h**
Learning Tree International, Stockholm.
- Fall 07 **C++: Productive solutions and design patterns (course 397), 32h**
Learning Tree International, Stockholm.
- Spring 06 **Printed circuit board design: PADS Logic and PADS Layout, 16h**
Cadputer AB, Stockholm.
- Fall 00-
fall 05 **Master of Science in Engineering Physics, Study orientation:
Electro-engineering**
Uppsala Technical University, Uppsala.

- Spring 05-
fall 05 **Master Thesis concerning hardware construction**
As Master Thesis I implemented a distributed network with the purpose to evolve into a complete test system to test motherboards and similar units. The network encapsulates signals from an ISA bus and distributes it through a LVDS link. The logic in this design is successfully implemented by the use of Field Programmable Gate Arrays (FPGAs).
The Master Thesis has been performed at Hectronic AB in Uppsala, Sweden and can be downloaded at <http://www.JohanJohansson.eu/MasterThesis>.
- Spring 03-
spring 04 **One social year as an exchange student in New Zealand**
Besides socializing with other students I studied courses concerning electro-technology, printed circuit board design and computer architecture at Otago University, New Zealand.
- Spring 99-
spring 00 **15 month Military Service as telephone network system engineer**
In Falun, Östersund and Enköping I made my Military Service on the military telephone network, Telesystem 9000, as a network system engineer.
One large part of the education involved leadership, stress management, group psychology, seminar techniques and target-projecting.
As a telephone network system engineer my task was to have a deeper understanding of the network so that I could set up, maintain, troubleshoot and repair the system and its components.
- Fall 94-
spring 98 **High School**
I studied the nature and science program with a technical study orientation at Torsås Korrespondensgymnasium.

Student association experience

- Feb 04-
Jan 05 **Engineering Physics student association (FSR)**
This academic year I was the chairman of our student association at our program (Engineering Physics) where we represent about 600-700 students. Our main task is to watch over the quality of our education program and to organize the course evaluation work. The position as a chairman also brought on the duty to plan and assemble meetings, take responsibility for the course evaluation work and to guide the association on its path towards new goals.
- Aug 01-
Jun 02 **Financial Manager of our student association**
This academic year I was the Financial Manager of our student association at our program (Engineering Physics).
- Aug 01-
Jun 02 **Permanent student representative in the recruitment board of the Physics Institute.**
This academic year I was a permanent student representative in the recruitment board of the Physics Institute. The mission was to evaluate the job applications and to choose the best suitable person to be recruited for vacant job positions at the Physics Institute.

Other merits and interests

Language

- **Swedish:** Mother Tongue.
- **English:** Fluently spoken and written.
- **French:** Basic.

Programming languages

- **VHDL:** Very good.
- **C++:** Very good.
- **Java:** Very good.
- **Assembler:** Very good.
- **Delphi:** Very good.
- **Matlab:** Very good.
- **Labview:** Good.

Computer software

- **Operating systems:** Microsoft Windows, Unix, Linux, MS-DOS.
- **Graphics:** Photoshop, CorelDraw.
- **Business/Planning tools:** SAP, MS Project, Primavera and EPP (Enterprise project planner).

Driver's license

Clean driver's license: Car and light weight motorcycle (125cc).

Spare-time interests

- **Favorite sports:** Judo, kettle bell, football, boxing, running, ice hockey and volleyball.
- **Other interests:** Chess, poker, folk dance, horse riding and mountaineering.

References

I am happy to provide references at your request.