Sigvart Hovland | CV

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Embedded developer and control engineering student

Education

Yan Oi Tin Ka Ping Secondary School **Hong Kong**
High school, 6A Science *2008–2009*

Trondheim Katedralskole **Trondheim**
IB diploma, HL chemistry, HL Physics *2009–2011*
Extended Essay: Caffeine content of oxidized and non-oxidized tea leaves

NTNU **Trondheim**
MsC Cybernetic and Robotics, *2011–Now*

Experience

Vocational..

ARM **Trondheim**
Summer Intern *2014–2014*
Summer intern for the hardware team at ARM trondheim where i worked with the new GPU architecture.
Detailed achievements:
- Updated the ARM GPU memory dump diss/assembler to support the newst architecture;
  - Updated the python disassembler to support the new GPU memory formats;
  - Updated the C++ assembler to support the new GPU memory formats;
  - Added support for getting a JSON formated dissasembled dump to be used for input analysis in other scripts;
- Designing and implementing an RTL in the memory-system for saving power.
  - Designed the RTL for a L2 cache snoop bypass;
  - Made a simple test bench for the RTL with verification and formal verification;
  - Decreased power consumption of an L2 cache snoop
- Changed the top-level test bench so it works on VCS and Questasim not only VCS.
  - Ported the test bench so that it would work on both VCS and Questasim;
  - Cleared up and fixed some bugs in the top-level test bench and updated the system verilog used in it;

Orakeltjenesten **Trondheim**
Summer job *2013–2013*
- Updating internal documentation
- Made guides and prepare information for new students at NTNU
- Helping out with the 50 year celebration graphical profile
- Solving Helpdesk cases which we received during the summer

NTNU IT   **Trondheim**

Summer Intern   *2012–2012*

- Firmware upgrade of Cisco and HP switches.
- Rigged a new network room with switches, CAT5 cables and fiber.
- Unpatch rooms/ports which were not in use.
- General clean up of network rooms cabeling.

Miscellaneous..

Nidaros Domkirkes Restaureringsarbeider   **Trondheim**

Publikumsvert/Tourism host   *2011–2012*

Checking tickets, cleaning up and closing Staying at the cash registerer and restocking in the souvenir store/Museum/Crown jewels. Leading groups of people up to the top of the Nidaros Cathedral and being responsible for their safety.

Burger King Olav Trygvasson Gate   **Trondheim**

Ekstrahjelp   *2010–2010*

Made food, cleaned and handled customers at the cash register.

Languages

Norwegian: *Native or bilingual proficiency*

English: *Native or bilingual proficiency*

Cantonese / Traditional Chinese: *Elementary proficiency*

Korean: *Elementary proficiency*

Volunteer Experience & Causes

AFS Intercultural Programs   **Trondheim**

Leader and returnee   *2009–Present*

I was a leader, volunteer and board member of the local AFS group in Trondheim. Leader of web content and arranged coffee shop meeting for students/exchange students and volunteers. Providing a ground for experience exchange and social encounters.

Interests

Maker/Hackerspace, Hobby projects: Made a light controlled window shutter. Working on a reprogrammable NFC tag for a startup called CosyTech [http://cosytech.net]

Extra 1

FG-Utvikling: Member of the development team in **Orakeltjenesten** where I help maintaining an internal webpage written in Django a python MVC web framework.

FG-Drift: Help maintaining the server park we use for our intenal webpages. Also setting up logstash, kibana and saltstack for easier monitoring and maintance.

References

Referals

- Morten Noddeland
- Tomas A. Fagerbekk
- Frode Vinje

Additional referals

Contact person, at ARM are also available upon request.