Charles Rutherford Ildstad

Curriculum Vitae

Singsakerbakken 2B 7030 Trondheim # +47 926 94 138 ⊠ charlesi@stud.ntnu.no folk.ntnu.no/charlesi

Education

2013–2018 Integrated Masters in Geotechnology, Norwegian University of Science and Technology(NTNU), Trondheim, Norway.

2010–2012 **IB Diploma Programme**, Nesbru Upper Secondary School, Asker, Norway.

Experience

Vocational

2014-present **Research assistant**, NTNU, Department of physics, Trondheim, Norway.

Assisting professors in physics with experimental work on thin films.

Duties:

- o Thin film sample preparation,
- X-ray diffraction and data analysis on thin films,
- Testing thin films as waveguides.

2014–present **Teaching assistant**, *NTNU*, Trondheim, Norway.

Holding weekly lectures for small groups, answering student questions and correcting mandatory assignments.

Subjects:

- TTK4105 Control Systems, "State space representations, feedback and control":
- TPG4100 Geophysics, "Seismics, electrical, electromagnetic and other methods":
 - Spring 2016.
- TMA4130 Calculus 4N, "Partial differential equations and numerical solution methods":
 - Fall 2015.
- TKT4126 Mechanics, "Stress, strain and statics":
 - Spring 2015.
- o TMA4110/4115 Calculus 3, "Differential equations, linear algebra and its applications":
 - Spring 2015,
 - Fall 2014.

2013–2016 **Security alarm operator**, *Verisure*, Trondheim, Norway.

Part-time employee as an operator at the monitoring central station.

Duties:

- Customer care,
- Alarm monitoring.

2015–2015 Learning assistant, NTNU, Department of Geology, Trondheim, Norway.

Coordinating groups for introductory geology projects.

Duties:

- Correcting assignments,
- o Introducing new solution methods to the groups,
- Evaluating team work.

Miscellaneous

2012–2013 Guardsman, Norwegian armed forces, Oslo, Norway.

Member of His Majesty The King's royal guard, part of compulsory military service.

Detailed achievements:

- Union representative for the 5th guard company,
- Lance corporal(NATO rank grade OR-2):
 - Promoted December 2012.
- Squad leader.

Languages

English native French advanced Norwegian native Danish advanced

Computer skills

Python advanced, 2 years SimuLink intermediate, 1.5 years Matlab advanced, 2 years HTML/CSS beginner, 1 year

LaTeX advanced, 2 years Word/Excel expert, 5+ years

Interests

Basketball Playing basketball for the varsity team Debating Engaging in various organized debates

Organizational work

- Nesbru model United Nations, 2009-2012(president 2010-2012)
- Class representative, 2009-2010
- Student-body representative for school environment issues, 2010-2012

Charitable work

- NTNU math tutoring initiative directed at middle school students, 2013-2014
- abled youth, 2010-2012
- o Tutor in the Vector programme, an O Student Mentor for new upper secondary school students, 2011-2012
- o Music teacher for developmentally dis- o Active member of the Amnesty International group at Nesbru, 2009-2011 (Leader of the group; 2009-2010)

References

• Professor:

Dr. Ursula J. Gibson Physics professor, NTNU E-mail: ursula.gibson@ntnu.no

Work: +47 735 93 336

• Employer:

Katrine Tangen

Team Leader, Verisure Norway E-mail: katrine.tangen@verisure.no

Work: +47 922 70 034