



Jørn A. Jernsletten, Dr.Philos.

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Career Goals

To be a gainfully employed commercial pilot.
Working in cold (arctic / antarctic), dry (desert), & remote environments.

Personal Background

PASSED all 14 EASA ATPL (A) theory exams on 1st attempt, with Luftfartstilsynet (CAA Norway, Civil Aviation Authority of Norway), at the locales of Luftfartsskolen A/S (a gov't approved FCL testing center) in Oslo, Norway. Last exam taken Thursday, 18 June 2015. CPL (A) FAA to EASA conversion in progress: The above to be followed by an EASA CPL (A) pilot license (Norway being the issuing member state), an Instrument rating, and an MCC (= CRM) course.

US / FAA ATP (A) / MEL / I. FAA Gold Seal Flight Instructor [MEI / CFI / CFII]. ~2,350 flight hours total, ~810 jet SIC, ~1,100 flight hours as CFI, ~1,260 cross country, ~250 night, ~233 instrument (~130 actual / ~103 simulated), ~1,500 PIC, ~300 instruction received, 11.9 helo (all instruction received on that one, of course). Embraer E170/E190 type rating (~810 jet SIC).

As a thought on field work, I have very extensive experience in the field under Arctic winter conditions, through military service, and through having lived most of my life in Arctic Northern Norway. I am Sami (the native people of Northern & central Scandinavia and Finland, and parts of the Kola peninsula), and I am not afraid of being alone, do not get lost, and can work independently and make decisions outdoors and in remote locations.

I have a B.S. in Computer Science, an M.A.S. in Space Studies, and a Dr.Philos. in Earth Science (geophysics / planetary science) from Universitetet i Bergen (UiB). Coursework, research, and writing for my UiB Dr.Philos. degree were all done in residence at Rice University and the Lunar and Planetary Institute, both located in Houston, Texas, while my Dr.Philos. disputas was conducted at the Faculty of Mathematics and Natural Sciences at Universitetet i Bergen, through the Department of Earth Science.

Education / Training

- 23 June 2004: Doctor Philosophiae (Dr.Philos.) degree in geophysics and planetary science, University of Bergen, Norway. Dissertation: "Possible Temperature-Related Slope and Surface Roughness Differences Between the North and South Walls of Coprates Chasma, Mars". Experience: Active source magnetotelluric, transient electromagnetic, fast-turnoff transient electromagnetic, resistivity, induced polarization, reflection & refraction seismic, ground-penetrating radar, gravity, magnetic, and broadband active electromagnetic geophysical field methods.
- 09/1996-08/1997: Master of Aeronautical Science degree in space studies, Embry-Riddle Aeronautical University, Daytona Beach, Florida. Graduated with a 3.88 GPA (4.00 scale). Skills / courses: Remote sensing / synthetic aperture radar (SAR); space operations; space physiology; air transportation; human factors.
- 08/1991-08/1993: Bachelor of Science degree in computer science, Southeastern Oklahoma State University, Durant, Oklahoma. Finished in 24 months, Magna Cum Laude with a 3.89 GPA (4.00 scale). Skills / courses: Operating systems (Windows XP, 2000, NT, 9x, 3.x, MS-DOS, Linux, UNIX, DEC Vax VMS); programming (C++, C, Fortran, Assembler, COBOL, SQL, Pascal, HTML, Lisp, Basic); applications (ArcView, MS Office, Photoshop, Acrobat, Matlab, USGS ISIS, etc.).
- 01/1989-06/2017: Flight training through the Federal Aviation Administration (FAA) Airline Transport Pilot (ATP) certificate, Multi-Engine Land (MEL) & Instrument ratings. Certified Flight Instructor (CFI), Multi-Engine Instructor (MEI), & Instrument Instructor (CFII) ratings. FAA Gold Seal Flight Instructor [MEI / CFI / CFII].
- 09/2013-09/2013: Planning and Operating a Land 3D Seismic Survey, by Andreas Cordsen and Peter Eick. Two day course in planning, designing, and overseeing a 3D land seismic survey, in conjunction with the 2013 SEG Annual Meeting.
- 04/2013-04/2013: Health, Safety, Environment, and Quality (HSEQ) Management System (HSEQMS). Three day introduction to Global Geophysical Services' HSEQMS based on OGP Document 210.
- 03/2013-03/2013: Three day introduction to project management principles & methods by Project Management Institute standards.
- 09/2012-09/2012: GMG Mesa seismic survey design software. Design of 3D and 2D land & marine seismic surveys.
- 02/2012-02/2012: GEDCO Vista seismic processing software. Processing of 3D and 2D land & marine seismic geophysical data.
- 09/2010-09/2010: GEDCO Vista seismic processing software. Processing of 3D and 2D land & marine seismic geophysical data.
- 07/2008-07/2008: Landmark ProMAX seismic processing software. Processing of 3D and 2D land & marine seismic geophysical data.
- 06/2006-06/2006: Sercel 408XL Recording System Training Course. Operating system and software installation, recording system setup and operation, line spread troubleshooting, system troubleshooting.
- 06/2001-07/2001: SAGE 2001 (Summer of Applied Geophysical Experience). Geophysical field course sponsored by the University of California and the Los Alamos National Laboratory branch of the IGPP. Methods covered: Seismic reflection; seismic refraction; gravity; magnetic; magneto telluric; transient electromagnetic; ground-penetrating radar (GPR); broadband active electromagnetic.

Work / Military Experience

- 04/2017-present: Embraer E-175 First Officer / co-pilot, Mesa Airlines, Inc. [dba United Express], Houston, Texas.
- 01/2016-present: FAA Gold Seal Flight Instructor [MEI / CFI / CFII], Anson Aviation, Sugar Land, Texas. Part 141 check instructor.
- 11/2013-04/2015: Geophysical Supervisor, Alaska Operations, Global Geophysical Services, Inc., Houston, Texas. Responsible for supervision of QC and in-field processing for land seismic acquisition operations in Alaska, and for 3D seismic survey design for bids and operational projects (recording scripts generation, etc.), and for processing field test data; using primarily Mesa and ProMAX software tools.
- 08/2012-10/2013: Geophysical Supervisor, Marine Operations, Global Geophysical Services, Inc., Houston, Texas. Responsible for supervision of QC and in-field processing in marine geophysical acquisition operations. Also responsible for 3D seismic survey design for bids, efficiency studies, and operational projects (recording scripts generation), and for processing field test data; using primarily Mesa and ProMAX software tools.

- 08/2010-07/2012: Director of Geophysics, NodalSeismic, LLC, Signal Hill (Long Beach), California. Managing and supervising geophysical field processing & quality control (QC) in seismic acquisition operations & project startups. Developed field processing methods for transitioning receiver domain seismic data from a fully cable free acquisition system (FairfieldNodal ZLand) into source domain, using GEDCO Vista software and Fairfield format field data.
- 01/2010-08/2010: Senior Field Geophysicist, Global Geophysical Services, Inc., Houston, Texas. Continuing to take on additional responsibilities for seismic project startups, training of QC personnel, and supervision of field crew geophysical QC operations.
- 08/2007-12/2009: Field Geophysicist, Global Geophysical Services, Inc., Houston, Texas. Worked on Crews 667 and 668 in Algeria, and on crews in the USA and Mexico. Involved in development, field testing, and production with slip-sweep harmonic noise removal. Supervised uphole logging programs. Supervised a seismic crew QC / field processing department with 11 personnel on a 2,560 km² ISS 3D seismic project for BP Exploration Algeria. Supervised the QC department on the ~79,000 channels per shot Piceance Creek 3D project for ExxonMobil.
- 10/2006-07/2007: Field Geophysicist II, Global Geophysical Services, Inc., Houston, Texas. Responsible for 3D seismic survey design, shot script generation, and field data QC; using Mesa and ProMAX software tools. In-field geometry processing of seismic data, data shipment, and production analysis & tracking. Worked on Crews 445 and 446 in Texas, Oklahoma, Kansas, Colorado, and California, for clients like Conoco and OXY USA. Experienced in development, field testing, and production with HFVS processing flows.
- 01/2006-09/2006: Junior Observer, Crew 446 and Crew 888, Global Geophysical Services, Inc., Houston, Texas. Responsible for seismic recording and data quality. Proficient with the Sercel 408XL/VE432 recording system. Formal training through the Sercel 408XL Recording System Course. Worked in Texas, Oklahoma, Colorado, Kansas, and California.
- 06/2005-12/2005: Geophysical Research Associate, Engineering Geophysics Laboratory (EGL), Dept. of Civil & Environmental Engineering, UNLV. Responsible for operation and routine maintenance of IVI minivib T-7000W seismic source, and recording equipment.
- 05/2003-06/2003: Fast-Turnoff TEM field survey in the Rio Tinto area of Spain, on behalf of the NASA Mars Analog Research and Technology Experiment (MARTE).
- 06/2002-08/2002: Zonge Engineering & Research Organization, Inc., Tucson, Arizona (geophysical field services company and equipment manufacturer). Spent 50 days in Alaska doing electromagnetic geophysical field work (Controlled Source Audiofrequency Magneto-Tellurics, CSAMT; fast-turnoff Transient Electro-Magnetic, NanoTEM) on two different contract jobs. Included repair and maintenance of generator and geophysical equipment. Experience with Induced polarization (IP).
- 01/1999-12/2001: Ph.D. Fellow, Project Manager, and Project Leader, Research Council of Norway (RCN fellowship number 128197/410, later 128197/410/bg). Fellowship awarded in a peer-reviewed process, totaling about US \$ 138,000 over 3 years.
- 05/1998-09/2003: No-Cost Visiting Graduate Fellow, Lunar and Planetary Institute, Houston, Texas.
- 09/1997-05/2003: Teaching assistant, Department of Geology and Geophysics, Rice University, Houston, Texas: Fall 1997, GEOL 101 The Earth; Spring 2002, ESCI 444 Reflection Seismic Data Processing Lab; Spring 2003, ESCI 446 Solid Earth Geophysics.
- 10/1989-06/1991: Flight Instructor Airplane, Versatile Helicopters, Inc., Ardmore, OK. Unsalaries work training. 241.5 flight hours of instruction given.
- 05/1988-12/1988: Norwegian Battalion (NORBATT) of the United Nations Interim Forces In Lebanon (UNIFIL), infantry. Nighttime ambush patrols, road checkpoints, communications, surveillance, crowd control. Shot at a couple of times, held hostage by paramilitaries for a day.
- 01/1986-04/1987: Royal Norwegian Navy, Artillery Systems Operator (ASYO), radar-guided weapons systems for Penguin surface-to-surface missiles and 4" naval guns (HOSA). Television / joystick control system for 40mm air defense guns (TVT-300). Repair and maintenance of missile racks, liquid nitrogen cooling system, and radar system.

Academic Honors, Medals, etc.

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| 1992-1993: | Member, Blue Key National Academic Honor Fraternity. |
| Summer 1993: | Dean's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| Spring 1993: | Dean's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| Fall 1992: | Dean's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| Summer 1992: | President's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| Spring 1992: | President's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| Fall 1991: | President's Honor Roll for academic achievement, Southeastern Oklahoma State University. |
| November 1988: | United Nations Service Medal, United Nations Interim Forces in Lebanon (UNIFIL). |
| March 1987: | Royal Norwegian Navy Draft Service Medal. |
| February 1986: | Royal Norwegian Navy 30-km Forced March Medal. |
| February 1986: | Royal Norwegian Navy Sharpshooter's Medal. |

Summer Work Experience

- 06/1985-09/1985: Nord-Norsk Import Kompani, A/S, Tromsø, Norway, invoice clerk. Work duties included reconciliation of invoices with purchase orders and inventory, inventory control, price list maintenance, and export / import paperwork.
- 06/1984-09/1984: Nord-Norsk Import Kompani, A/S, Tromsø, Norway, invoice clerk. Work duties included reconciliation of invoices with purchase orders and inventory, inventory control, price list maintenance, and export / import paperwork.
- 06/1982-09/1982: Kurbadet A/S, Tromsø, Norway, assisting in janitorial and maintenance work. In addition to routine janitorial duties included landscaping (moved several tons of soil by spade and wheelbarrow), concrete work (built a swing foundation), and complete rebuilding of a swimming pool (drilled out the grouting in the spill tanks under the pool, re-tiling inside the pool).

Other Interests

- Languages: English, German (a bit rusty), Norwegian (+ Swedish & Danish).
- Pilot Licenses: Commercial Pilot single and multi engine airplane, instrument. Flight Instructor, single and multi engine airplane.
- Hobbies: Space, flying, skydiving, skiing, scuba diving, swimming, rowing, surfing, hiking, fishing, hunting, reading, movies, boating.