



# Anders Strand

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## Education

- 2010–2015 **Master in Engineering Cybernetics**, NTNU, Trondheim.  
2006–2009 **High School with a focus on science subjects**, Vestby videregående skole.

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## Core skills

- **Embedded systems**, *Firmware, electronics, sensors, wireless, IoT.*
- **Real-time Programming**, *Embedded/C, C++, Python.*
- **Rapid prototyping**, *3d printing and CAD, proof of concept electronics.*
- **Communication**, *Ability to speak the language of developers, technicians, accountants, creatives, project managers and other stakeholders.*

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## Work experience

- 2018 - **Camera Tracking Engineer**, *The Future Group*, Oslo.  
Present Camera tracking integration for real time virtual productions
- 2017 -2018 **IMR Engineer**, *The Future Group*, Oslo.  
Real time sensor systems for mixed reality TV production
- 2016 - 2017 **Product Developer**, *Norwegian Creations*, Trondheim.  
Electronics, embedded firmware, 3d design, rapid prototyping
- 2015 - 2016 **Application Engineer**, *Nordic Semiconductor*, Trondheim.  
Technical support for Bluetooth Smart embedded development
- Summer **Summer Intern**, *Nordic Semiconductor*, Trondheim.  
2014 Bluetooth smart home systems
- Summer **Warehouse clerk**, *ASKO Øst*, Vestby.  
2012 Recycling station
- Summer **Warehouse clerk**, *ASKO Øst*, Vestby.  
2011 Recycling station and truck driver
- 2009-2010 **Private**, *Engineer Battalion*, Troms.  
Summer **Summer temp**, *Ramme Gaard*, Vestby.  
2009 Parking duty and general farm work
- Summer **Warehouse clerk**, *ASKO Øst*, Vestby.  
2008 Truck driver
- Fall 2007 **Gas Station Clerk**, *Statoil Nord*, Vestby.

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## Volunteer activity

- 2014-2015 **Crew chief**, *Videokomiteen*.  
Leader of 13 Video technicians at the student society in Trondheim
- 2012-2014 **Video technician and accountant**, *Videokomiteen*.  
Budgeting and accounting, as well as responsibility for our computer systems.
- 2011-2012 **Editor**, *OmBul*.  
Omega Bulletin(OmBul) is the student paper for students of Electronics and Engineering Cybernetics at NTNU.
- 2010-2011 **Board member**, *Association of young scientists*.
- 2010-2011 **Crew-member**, *The Gathering 2011*.  
TG is the biggest data party in Norway
- 2010-2011 **Writer**, *OmBul*.  
Omega Bulletin(OmBul) is the student paper for students of Electronics and Engineering Cybernetics at NTNU.
- 2008-2011 **Member**, *Team Space Camp*.  
Team Space Camp is a sub-group of the Association of young scientists, which organises the yearly international [European Space Camp](#) at Andøya Rocket Range in northern Norway. It consists of students that works voluntarily trough the year with preparation and execution of the camp.

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## Interests

- Computers From building and overclocking trough gaming and programming
- Sports Cardio and strength training. Volleyball, Football, Snowboard and cross country skiing.
- Maker-activities I enjoy creating things with my hands, from art to technical installations.
- Music I play the guitar and piano, as well as produce music as a hobby.

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## Selected projects

- January 2019 **Camera Tracking Integration**, *For broadcast systems*.  
Real-time parser and router of camera and lens tracking data. Integration with Unreal engine. Written in C++.
- May 2018 **Zoom lens calibration tool**, Software for calibrating broadcast zoom lenses. Written in C++ using OPENCV for image recognition and calibration algorithm. Integration with GUI using google protocol buffers.
- December 2016 **High precision GPS device**, *Using NTRIP RTK*.  
Bluetooth Smart enabled GPS device, which utilizes a smartphone connection to retrieve NTRIP correction data, achieving high accuracy positioning. I did prototype manufacturing and testing, electronic component selection, firmware in C for ARM Cortex M4 architecture.
- June. 2015 **Master Thesis**, *Aided remote control of indoor UAV*.  
A simplified remote control system for long range control of indoor UAV's. The solution includes video streaming and control interface over web, as well as a position hold controller based on distance measurement in six directions. Hardware platforms used were Raspberry PI (Linux), and Atmel ATmega 328 (8 bit MCU). Programming languages used were HTML, JavaScript, Python and C.

Feb. 2014 **EMECS-thon**, *Winner of "Best technical implementation"*.

[EMECS-thon](#) is a 48 hour embedded marathon. Our 3 man team made a smart mailbox which senses and weighs new mail, and email the info to its owner. It also featured a bluetooth controlled lock and motors for automatic opening and closing. The project was based on ATMEL's SAM4L board, Nordic Semiconductor's nRF51 dev kit and a raspberry PI. Our presentation was filmed, and can be found [here](#). The languages used was python and C.

Fall 2012 **Pinball game**, *In the course TTK4155 Industrial and embedded computer systems*.

We made an embedded system from scratch using breadboards, AVR MCU's and various developement kits. We implemented communication in serial trough SPI, I2C and CAN, and in parallell trough memory mapped I/O. We used servos, dc-motors and solenoids. With a rotary encoder we made a PID position controller for a small cart. We got a 90/100 grade on the project. The language used was C.

Spring 2011 **Live Wallpaper for Android**.

Together with a friend I made a live wallpaper based on the game "Portal 2" by valve. It was quite popular, and has surpassed 160 000 downloads with an average rating of 4/5. The language used was Java.

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## Driving Licenses

- Norwegian drivers license class B.
- Forklift drivers license classes T1,T2,T4.

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## Languages

Norwegian	Fluent	<i>Oral and written</i>
English	Fluent	<i>Oral and written</i>
German	Basic understanding	<i>Oral and written</i>