

# LUKA STRIZIC

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## WORK EXPERIENCE


**SWIFT NAVIGATION**    **Firmware Engineering Intern**    Dec 2017 – Mar 2018    San Francisco, California, USA  
Added CAN bus and NMEA2000 support to the Piksi Multi and Duro GNSS Receivers.

**GOOGLE**    **Software Engineering Intern**    Aug 2017 – Dec 2017    Madison, Wisconsin, USA  
Platforms. Worked on a low-level, low-latency, high-performance networking engine in C++. It is used in Google's datacenters supporting big products that you've definitely heard of. The result of the internship was successfully deployed into production.

**UNIVERSITY OF COLORADO BOULDER**    **Visiting Research Scholar**    Feb 2017 – Aug 2017    Boulder, Colorado, USA  
Department of Aerospace Engineering Sciences, Colorado Center for Astrodynamics Research. Worked under Prof. Dennis Akos in support of his GNSS radio-frequency interference detection and localization research. Implemented a crowdsourced GNSS jammer detection system with elements such as a software-defined radio USB host in C++, an Android app to collect GNSS observations and a GNSS measurement processing backend in Python.

**GOOGLE**    **Software Engineering Intern**    Jun 2016 – Sep 2016    Zürich, Switzerland  
Search Infrastructure. Designed and implemented a JIT compiler in C++, using LLVM as the backend, for an internal Lisp-like language used for structured queries.

**SARTURA**    **Software Engineering Intern**    Jul 2015 – Nov 2015    Zagreb, Croatia  
Lead the development of an extensible framework for CWMP/TR-069 client in C, targeting OpenWrt platform. Passed on the know-how to other team members after project kick-off.

**DEGORDIAN**    **Software Engineering Intern**    Sep 2013 – Jun 2015    Zagreb, Croatia  
Worked on a realtime media monitoring service, Mediatoolkit , in C++, Java and PHP. Sometimes performed simple sysadmin tasks on several CentOS servers.



**UNIVERSITY OF ZAGREB**    **Student Assistant**    Oct 2011 – Jun 2015    Zagreb, Croatia  
Held office hours for other students and/or supervised laboratory exercises in courses: Computer Aided Design of Electronic Systems, Electronics 1, Communication Networks, Algorithms and Data Structures, Digital Logic, Programming and Software Engineering.

## EDUCATION

**UNIVERSITY OF ZAGREB**    **MSc Computer Engineering**    Expected Jul 2018    Zagreb, Croatia

**LULEÅ UNIVERSITY OF TECHNOLOGY**    **MSc Space Instrumentation**    Nov 2017    Kiruna, Sweden

**UNIVERSITY OF WÜRZBURG**    1<sup>st</sup> semester of 2015/2016    Würzburg, Germany

Master thesis    Crowdsourcing GNSS Interference Detection and Localization   
VISTA    Designed and implemented a GPS payload for a student-built sounding rocket, SERA 3, that was successfully launched on April 26<sup>th</sup> 2017 from the Esrange Space Center in Kiruna, Sweden. Lead embedded software and PCB/electronics design.   
PARADOX    An airbed-tested, 1 DoF CanSat. Objective was to recognize another CanSat and then dock with it. Worked primarily on the ground station and communication parts of the embedded software.

**UNIVERSITY OF ZAGREB**    **BSc Computer Engineering**    Jul 2015    Zagreb, Croatia

Bachelor Thesis    Optimization of Lossless Image Compression Method for GPGPU 

Extracurricular    Student Representative at the Faculty Council

## OTHER ACTIVITIES

**2018 STEMGames student competition**    1<sup>st</sup> place out of 20 teams in the *Technology Arena*  
**2017 European Satellite Navigation Competition**    2<sup>nd</sup> place out of 320+ applicants, winner of the *University Challenge*  
**2016 CopenHacks hackathon**    1<sup>st</sup> place out of 25 teams, *.tech's* prize for hosting on *.tech* domain  
**2015 jacobsHack! hackathon**    2<sup>nd</sup> place out of 24 teams, organizer's favourite hack  
**2015 Elekrijada student competition**    1<sup>st</sup> place in C++ out of 18 teams, 2<sup>nd</sup> place in C out of 18 teams  
**2015 Telegram BlackBerry 10 native client contest**    Runner-up out of 10 teams, awarded 5000 EUR

## SKILLS

**Programming Languages**    ❤️ C, ❤️ C++, Java    Under 10k LoC: Python, JavaScript, VHDL, PHP, Haskell, Matlab

**Other Technologies**    PCB design, firmware & microcontroller programming, Android app development, CUDA GPGPU programming, fullstack development

**Spoken Languages**    Croatian native, English C2, German B2, French A1