




# LUKA STRIZIC

🏠 San Francisco, California, USA    ✉️ luka.strizic@hotmail.com    🌐 luka.strizic.info    🌐 /lstrz    in /in/lstrz

## WORK EXPERIENCE

<b>SWIFT NAVIGATION</b>	<b>Firmware Engineering Intern</b>	Dec 2017 – present	San Francisco, California, USA
Implementing wheel encoder support in the Piksi Multi GNSS Receiver for the purpose of dead reckoning.			
<b>GOOGLE</b>	<b>Software Engineering Intern</b>	Aug 2017 – Dec 2017	Madison, Wisconsin, USA
Platforms Hardware Development. Worked on a low-level, high-performance networking engine in C++.			
<b>UNIVERSITY OF COLORADO BOULDER</b>	<b>Visiting Research Scholar</b>	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.			
<b>GOOGLE</b>	<b>Software Engineering Intern</b>	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.			
<b>SARTURA</b>	<b>Software Engineering Intern</b>	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.			
<b>DEGORDIAN</b>	<b>Software Engineering Intern</b>	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.			

## EDUCATION

<b>UNIVERSITY OF ZAGREB</b>	<b>MSc Computer Engineering</b>	Expected Jul 2018	Zagreb, Croatia
<b>LULEÅ UNIVERSITY OF TECHNOLOGY</b>	<b>MSc Space Instrumentation</b>	Nov 2017	Kiruna, Sweden
<b>UNIVERSITY OF WÜRZBURG</b>		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.		
<b>UNIVERSITY OF ZAGREB</b>	<b>BSc Computer Engineering</b>	Jul 2015	Zagreb, Croatia
Bachelor Thesis	Optimization of Lossless Image Compression Method for GPGPU 		
Extracurricular	Student Representative at the Faculty Council Student Assistantship in Computer Aided Design of Electronic Systems, Electronics 1, Communication Networks, Algorithms and Data Structures, Digital Logic, Programming and Software Engineering		

## OTHER ACTIVITIES

<b>European Satellite Navigation Competition 2017</b>	2 <sup>nd</sup> place out of 320+ applicants, winner of the <i>University Challenge</i>
<b>CopenHacks Spring 2016 hackathon</b>	1 <sup>st</sup> place out of 25 teams, .tech's prize for hosting on .tech domain
<b>jacobsHack! Fall 2015 hackathon</b>	2 <sup>nd</sup> place out of 24 teams, organizer's favourite hack
<b>Elektrijada 2015 competition</b>	1 <sup>st</sup> place in C++ out of 18 teams, 2 <sup>nd</sup> place in C out of 18 teams
<b>Telegram BlackBerry 10 native client contest</b>	Runner-up

## SKILLS

<b>Programming Languages</b>	♥ C, ♥ C++, Java	Under 10k LoC: Python, JavaScript, VHDL, PHP, Haskell, Matlab
<b>Other Technologies</b>	PCB design, firmware & microcontroller programming, Android app development, CUDA GPGPU programming, fullstack development	
<b>Spoken Languages</b>	Croatian native, English C2, German B2, French A1	