

# Primož Kralj

software engineer

## contact

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## languages

slovenian (native)  
english (fluent)  
german (basic)

## programming

C/C++  
Python  
C#  
Java  
Bash

## technologies and platforms

Linux  
ARM  
Android SDK  
Embedded IoT

## education

2012–2015 **MSc** in Software Engineering FERI, University of Maribor

2009–2012 **BSc** in Software Engineering FERI, University of Maribor

## experience

2014–present **LXNAV** Celje, Slovenia

Embedded Software Engineer

Development of various devices for glider and ultra-light aircraft.

- sensory data collection and analysis
- interfacing with external radios and transponders via RS232/RS485
- interfacing with ECU's via CANaerospace
- ARM Cortex programming
- computer-on-module Linux hacking
- server-side-scripting
- Bluetooth Low Energy
- CAN bus debugging software
- data analysis software

2013 **LXNAV** Celje, Slovenia

Summer Intern

Various development tasks regarding embedded systems used in aviation. Main focus on device communication: device bridges, CAN protocol messaging and serial (RS232, RS485) communication.

2012 **LXNAV** Celje, Slovenia

Summer Intern

Worked in the field of DSP - specifically the Kalman filter for sensor fusion and noise removal - on embedded systems used in glider airplanes.

2011 **ComTrade** Maribor, Slovenia

EdIT Summer school

Developed a multiplayer mobile game with Facebook integration for Android platform.

## interests

**professional:** embedded systems, aerospace engineering, internet of things, Android, fintech

**personal:** cycling, football, backpacking, autonomous quadcopters

## publications

June 2013

Differential Evolution with parallelised objective functions using CUDA (pdf)