

PROFILE

Electronics and telecommunications engineer, who has hands-on experience on all aspects of software development life cycle. Able to develop software with first-class design perspective and also lead project/team with leading and social communication skills.

Ready to challenge toughest software problems with wide-open perspective of software development and design.

SKILLS & KNOWLEDGE

Software and Design:

* C/C++ for embedded system applications
* UI development using QT and C#
* Python and Matlab for simulations and data analysis applications
* Java for Android
* Well-structured, maintainable and robust coding using OOP, Design Patterns and TDD
* Source version controlling techniques (SVN, GIT and Clearcase)
* Agile development process (Code review, Kanban, Scrum etc.)

Robotics and automations:

* Applied robotics and machine learning algorithms
* Real-time control applications
* PLC technologies, industrial control, communication protocols
* Computer vision algorithms and Cartesian data analysis using TOF 3D cameras

EDUCATION

2006 – 2010 : Kocaeli University - Electronics and Telecommunications Engineering

2002 – 2006 : Ordu Anadolu Lisesi

PROFESSIONAL EXPERIENCE

**Product Development Engineer @Siemens**

*(10.2014-…)*

Product development engineer role taken on ground-breaking, innovative PC based PLC of Siemens automation product family (1).

* Software development on *PROFIBUS* and *PROFINET* communication protocols
* Refactoring legacy code with OOP and TDD techniques

**Embedded Software Engineer @Triodor Software R&D, Lely Industries NV**

(06.2013 - 09.2014)

Lead embedded software engineer role in project named *Lely Discovery (1)*, an autonomous mobile robot to clean barn environment for dairy cow farms.

* Autonomous in-door navigation library developed with probabilistic robotics algorithm using **Particle Filter** approach (C++). Real-time data analysis and 2D visualization applications completed (Python/SciLAB).
* IFM 3D camera software developed for navigation library and detection of patterns in barn environment (C++ and Matlab).

**Junior Embedded Software Engineer****@Triodor Software R&D, Lely Industries NV**

(10.2010-12.2012)

Embedded software engineer role in project named *Lely Vector (2)*, an autonomous robotic feeding system for dairy cow farms.

* Technology research, software development and field tests of wireless communication layer between robotic systems successfully configured with ZIGBEE (IEEE 802.15.4) technology using NXP Jennic Family.
* Wireless handheld device application developed to control and calibrate robotic feeding system (QT for Linux and Java for Android targets)
* IFM 3D camera software developed and integrated to robotic feeding system, which finds optimal Cartesian coordinate for specified feed type, using machine learning and image processing techniques (C++ and Matlab).
* Peripheral drivers and EMC test software developed for control circuits. (C and C++)

**COURSES**

ISAQB-F (International Software Architect Qualification Board) *Slovakia-Bratislava*

20.05.2015

Test Driven Development *JBrains.co / Romania-Brasov*

06.11.2015

Object-Oriented Programming and Design Patterns *Education Company Berlin*

10.04.2015

**LANGUAGES**

**English** Speaking: Advanced / Writing: Advanced

Lived in Netherlands more than 6 months while working for Triodor-Lely BV.

**German** Speaking: Basic / Writing: Basic

Grow up to 5 years in Germany/Stuttgart and visit frequently afterwards, German became easy to understand and speak after a quick practice.

**INTERESTS**

Camping and motorcycling into the unknown paths are top picks, which keep up my passion on machines and nature surrounding me.

1. *Simatic S7-1500 Software Controller -* [*http://w3.siemens.com/mcms/programmable-logic-controller/en/software-controller/s7-1500-software-controller/Pages/Default.aspx*](http://w3.siemens.com/mcms/programmable-logic-controller/en/software-controller/s7-1500-software-controller/Pages/Default.aspx)
2. *Lely Discovery -* [*http://www.lely.com/en/housing/mobile-barn-cleaner/discovery*](http://www.lely.com/en/housing/mobile-barn-cleaner/discovery)
3. *Lely Vector -* [*http://www.lely.com/en/feeding/automatic-feeding-system/vector*](http://www.lely.com/en/feeding/automatic-feeding-system/vector)