

# Boldizsár Palotás | Curriculum Vitæ

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I am a professional software engineer with experience in implementing and working with complex systems. My specialty is C++, C and embedded systems, but I have worked with a lot more. I am both good at working independently and in teams. I enjoy solving technical challenges and working with smart people.

## Skills

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### Software Development & Electrical Engineering.....

C++ (esp. C++11-17), C, C#, Python, Java, UNIX/Shell, ASM etc.; **object-oriented** programming; **embedded OS** and **firmware** development and debugging (bare metal, RTEMS, uC OS-II, and Linux); **assembly** (mostly ARM); functional programming fundamentals; **FPGA** design (Verilog and VHDL); **parallel programming** (OMP, x86 SIMD, CUDA for GPUs); **build systems** (CMake, make, GNU/LLVM toolchains); Matlab, Mathematica; web (HTML, CSS, JavaScript, PHP, SQL); appreciation of good documentation; **Digital circuit design** from requirements to PCB design and bringup, programming.

### Development Lifecycle Management & Software Engineering.....

Producing **requirement** specifications, **system design** and **architecture**, writing **technical documentation**. Using **agile** methods, **version control**, **issue tracking**, **continuous integration** and **test-driven** development.

### Soft skills.....

**Team player** with international experience and good communication skills; **result-oriented**, **pragmatic** and capable of **independent**, **analytic problem solving**. With experience in **teaching** and **tutoring**.

### Other interests.....

Programming language theory (favorite languages include C++, Rust, Haskell); operating system design; open source software development; machine learning and artificial intelligence. Photography and nature.

## Experience

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**European Space Agency (ESA, European Space Research and Technology Centre)** **Noordwijk, NL**  
*Software Engineer YGT* *2017–2018 ongoing*

Work: Custom compiler implementations, work on embedded OS/runtimes. System req's, design, testing and support. Tech used: Modern C++, C, assembly, Shell; CMake, Make; LLVM; RTEMS OS; embedded emulators; GIT, CI.

**Evosoft Hungary (a Siemens AG subsidiary)** **Budapest, HU**  
*Software Engineer* *2017*

Work: Desktop medical software using agile methods. Tech used: C#, Visual Studio, VSTS, TFVC.

**Infoware Inc.** **Szigetszentmiklós, HU**  
*Embedded systems developer* *2015–2016*

Work: feature development for ARM-based embedded systems, PCB design for BSc thesis and porting embedded OS/FW to ARM Cortex-M arch. Tech used: C, ARM assembly, GNU make and ld, P-CAD.

**Students' Council at Budapest University of Technology and Economics** **Budapest, HU**  
*Software developer / Elected council member* *2013–2016*

As a developer (2016, part-time) – Work: extending web and C# desktop app used for university functions, managed some of the design and req's with stakeholders. Tech used: PHP Laravel framework; C#, ANTLR; Git.

As council member (2013–2016), member of multiple student-only and faculty-student committees; financial officer for a year; organized work-shops; gained significant communication, team-work, presentation, negotiation skills.

**Other:** **Budapest, HU**

**Teaching assistant** (2013–2015 at BUTE), four courses in Signals & Systems and Electromagnetic Theory.

**Member of Simonyi Károly College for Advanced Studies** (2014–2016 at BUTE); member and leader (2016) of electronics DIY club.

## Education

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**Budapest University of Technology and Economics**

**Budapest, HU**

*MSc in Electrical Engineering, graduated **excellent with highest honours***

*2015–2017*

Major in **Engineering of Computer-Based Systems**, minor in **Application of programmable logic and FPGAs**.

Subjects studied: advanced mathematics (calculus, linear algebra, probability theory), physics, electronics, signals and systems, control systems and industrial control, software development, embedded software, robotics etc. incl. BSc.

**Thesis: Controlling Car-like Robot in ROS Environment**

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**Delft University of Technology**

**Delft, NL**

*Courses from the MSc in Embedded Systems program*

*2016 (exchange)*

Subjects studied: digital control systems, embedded firmware development, processor design, advanced English.

Biggest achievement: implementing control software for a quad-rotor drone in a two-person team within six weeks.

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**Budapest University of Technology and Economics**

**Budapest, HU**

*BSc in Electrical Engineering, graduated **excellent with highest honours***

*2011–2015*

Major in **Engineering of Computer-Based Systems**

**Thesis: Design and Programming of Serial Protocol Extension Card Compatible with Infoware MAB3 RTU System**

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## Spoken languages

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**English:** Fluent

*C1 level language examination*

**German:** Basic

*B2 level language examination*

**Hungarian:** Native

## Other

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**Driver's license:** Category B

**Citizenship:** Hungarian (EU)

**CV last updated:** September 29, 2018