Luka Zavrtanik

Curiculum vitae

Work experience

2022–Present **System test engineer**, *Hella Saturnus*, Ljubljana.
Validation testing management - budgeting, planning and coordination of tests and equipment

2020–2022 **Test engineer PCBA**, *Hella Saturnus*, Ljubljana.
Validation testing of electronic components and assemblies as a segment in developement of lamps for automotive industry

2018–2020 **Concept design engineer**, *Hella Saturnus*, Ljubljana.
Concept development and 3D-modelling of lamps for automotive industry

2017–2018 **Internship**, *SmartWins Technologies GmbH*, Berlin.
My task was to design and build a test rig for the company's main product - a sensor, that detects a leak in household plumbing

2015–2017 **Design and development**, *BSH Household Appliances*, Ljubljana.
My task was to design, build and test a prototype, which later became the subject of my Master's thesis

2009–2017 **Various part-time jobs**.
During high school and college, I worked various jobs in the Engineering field, such as tool shop, electronics production line, designing and manufacturing prototypes, etc.

Technical skills

Concept desing	Excepience with designing parts and prototypes, testing and manufacturing, and improving upon earlier designs
3D modelling	Working experience with SolidWorks and Catia
Electronics	General knowledge of electronics principles and components, experience with inspecting, assembling and testing PCBs
Programming	Basic knowledge in C, Arduino, Python,Excel VBA, and LaTeX
Tools	Working experience with basic hand tools, hand-operated machines (lathe, milling machine), abrasive water jet machining

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+386 31 561 523 • *luka.zavrtanik@gmail.com*

Languages

Slovene	C2 - Native language
English	C1 - Advanced
German	B2 - Upper-intermediate
Italian	B1 - Intermediate
Other	Basic Croatian, Spanish, Russian

Education

2015–2018 **Master of science**, *Faculty of Mechanical Engineering*, University of Ljubljana, Mehatronics and laser technology.

Title *Design and making of an extrusion based biscuit forming machine*

Description In cooperation with BSH Household Appliances, we designed a device that would improve the task of making homemade biscuits. The end product was a prototype, that operated using extrusion and sped up the otherwise slow process.

2011–2015 **Bachelor of science**, *Faculty of Mechanical Engineering*, University of Ljubljana, Mechanical engineering.

Title *Usage of 3D scanning for path correction at contour cutting procedures*

Description The goal of the thesis was to improve the process of cutting holes into cast-iron side sections of industrial tanks. Because of the nature of the manufacturing process, the actual dimensions deviated from the nominal values. This issue initially caused distorted shapes of the holes, and it was solved using 3D scanning.

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