

Work experience

# Luka Zavrtanik

# Curiculum vitae

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, Smart Wins 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
Tools	Working experience with basic hand tools, hand-operated machines (lathe, milling machine), abrasive water jet machining and 3D printing
Electronics	Basic knowledge of electronics principles and components, experience with inspecting, assembling and testing PCBs $$
Programming	Basic knowledge in C, Arduino, Python and Excel VBA
Computer knowledge	Working experience with Microsoft Office programs and general computer knowledge

3D modelling Working experience with SolidWorks and Catia, experience with concept design

# Education

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

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

2006–2011 Matura (baccalaureate equivalent), *Splošna gimnazija*, Nova Gorica, High school education.

#### Master's thesis

Year 2018

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.

# Undergraduate thesis

Year 2015

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.

## Languages

Slovene C2 - First language

English C1 - Advanced

German B2 - Upper-intermediate

Italian B1 - Intermediate

Other Basic knowledge of Croatian, Spanish and Russian

languages