



# Luka Zavrtanik

## Curriculum vitae

### Work experience

- 2025–Present** **Mechanical engineer**, *Pipistrel*, Ajdovščina.  
Development of 3D models, making drawings and documentation, and taking part in prototype manufacturing of components for aircrafts
- 2022–2025** **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 development 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, build and validate 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 and 3D printing

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## Languages

Slovene	C2 - Native language
English	C1 - Advanced
German	B2 - Upper-intermediate
Italian	B1 - Intermediate

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## Education

**2015–2018 Master of science**, *Faculty of Mechanical Engineering*, University of Ljubljana, Mechatronics 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.