

AT

2023

# ALJAZ TITORIC

## LEAD ELECTRICAL ENGINEER

RÉSUMÉ

My name is Aljaz Titoric and I am an accomplished Hardware Design Engineer with experience gained from companies such as Avular, ASML, TASKING iSYSTEM Labs. I have a passion for hardware electronics, designing new products and pushing the boundaries of what is achievable.

### EDUCATION

UNIVERSITY OF LJUBLJANA  
Faculty of Electrical Engineering  
*Electrical Engineering - Electronics*

*MIDEM conference 2012 - Application of Anisotropic Magnetoresistive sensors for detection of changes in organ activity*

*B.Sc. dissertation - Design of multilayer PCB and custom enclosure for the ACTIVE PROBE INFINEON DAP device. The project was designed with Cadence OrCAD and SolidWorks.*

### ADDITIONAL COURSES

Altium Designer @FEDEVEL Academy  
*Schematic and PCB Design Course*

SolidWorks @IB-CADDY  
*SolidWorks Course: Part, Assembly, Drawing, Base simulations*

### SKILLS

#### EXPERTISE

Product development | Team Lead | Electronics development | Multilayer PCB layout | Prototyping | Electronics production | Documentation and instruction writing/drawing | Enclosure design

#### DEVELOPMENT

Altium Designer | Cadence OrCAD | Eagle AUTODESK | KiCad | LT Spice | CorelDraw | SolidWorks | Alibre Design | Microsoft Office | Adobe LightRoom | FAB 3000 Numerical Innovations

#### LANGUAGES

Slovenian | English | Croatian

#### HOBBIES

Photography | Cars | Kayak Sprint | Technology



## CAREER HIGHLIGHT

### Avular B.V.

01/2022 - PRESENT

ELECTRONICS LEAD & HW DESIGN ENGINEER

*Designing mobile robotic platforms for flying (Vertex) and driving (Origin) vehicles in the Pioneers team.*

*Role: Electronics Engineer & EE discipline lead.*

***As a discipline lead of Electrical Engineering department, I am responsible for:***

- *Leading the team of Electrical Engineers within Avular.*
- *Defining and maintaining the structure of the Way of Working within the EE department.*
- *Contributing to people allocation between projects.*
- *Providing feedback on the EE designs.*
- *Defining discipline development roadmap.*

***As a experienced Electronics (Hardware) Engineer I am responsible for:***

- *Developing robust and complex printed circuit board designs.*
- *Design of mixed signal electronics.*
- *Working closely with Mechanical and Software engineers on the design of the new platforms.*
- *Delivering product documents such as Test & Validation reports, Design Decision documents, Design Review documents, etc..*
- *Conducting prototyping and design validation in EE proto & test Lab.*
- *Defining a work breakdown and effort estimation for the various electronics designs.*
- *Contributing to the roadmap concerning the EE.*

### ASML

03/2019 - 12/2021

DIGITAL HW DESIGN ENGINEER

Designing the Digital Control Circuitry for high power PSUs, used for driving the photolithography machines (semiconductor industry) to achieve a few nanometers accuracy.

EL DE, Power & High Voltage Electronics.  
EXE5000 project.

***As an Electronics designer I was responsible for the following:***

Designing, documenting and maintaining digital board designs, electrical modules and infrastructure. Acted as the Electronic Development representative, interacting intensively in a multidisciplinary design team.

Acted as a technical expert and was able to manage the outsourcing of production activities at partners. Performed trade-off studies to determine the preferred implementation scenario for new or changed functions. Got agreement with stakeholders.

Made work breakdown and effort estimation for the various circuit designs, adjusted with other stakeholders.

Guaranteed design quality and compliance by knowledge, experience and usage of reviewing and risk reducing tools.

Contributed to the roadmap concerning the electronics within the ASML power cabinet products. Transferred knowledge to production-engineers. Contributed to analysis and solution of reliability issues. Acted as a technical coach for other team members.





## CAREER HIGHLIGHT

**Asyst electronic d.o.o.**  
**iSYSTEM Labs d.o.o.** 10/2015 - 02/2018

PCB DESIGN ENGINEER

*Designing multilayer printed circuit boards with couple of hundred electrical components, high speed digital & analog signals, power supplies, etc.*  
Tool: Cadence OrCAD

*Designing custom enclosures for electrical devices from metal sheets, milled aluminum, etc.*  
Tool: SolidWorks

**1ozfactory d.o.o.** 01/2018 - 02/2019

CONSULTANCY ENGINEERING

*Designing a customer specific electronics products.*  
Tool: Altium Designer, Cadence OrCAD

*Designing custom enclosures for electrical devices from various materials.*  
Tool: SolidWorks

**Student work** 2007 - 2015

SMT, Manufacturing - Soldering, testing  
Atlan, Development - PCB & mechanical design  
SES Group, Development - hardware design  
Faculty of EE, Development - hardware design  
Beyond Devices, Development - hardware design

**Freelance work** 2016 - PRESENT

C&C Design - DTU1000  
*Designing and manufacturing custom made dental handpiece and micro motor testing unit for using in repair shops.*  
Tools: Altium Designer, CorelDraw, SolidWorks

Torgbyte - Layout design  
*Designing 2+ lay printed circuit boards.*  
Tools: Altium Designer

*... and many more.*

