OZREN VUCICEVIC

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in ozren-vucicevic

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IT SKILLS

- Microsoft Office package
- Python
- Git
- MATLAB
- Latex
- Django

DATA SKILLS

Data processing
- Pandas
- Numpy
- Matplotlib
- Sci-Py

Machine/Deep Learning
- SciKit-Learn
- Keras
- TensorFlow
- Anomaly Detection
- Predictive Maintenance

Signal processing
- Time-Series Data Analysis
- Motion tracking
- Xsens MVN Awinda
- Laban Movement Analysis

ENGINEERING

Robotics
- Universal Robots
- OpenCV (blob detection)
- Sensory data collection
- System integration
- TCP/Modbus protocols

ABOUT ME

With a passion for leveraging technology to drive innovation and efficiency, at Aalborg University I have dedicated much of my studies to exploring data analysis and machine/deep learning applications.

Throughout my academic career, I have worked on a variety of projects in collaboration with different companies including VELUX and Arla, that have honed my analytical and problem-solving skills. I have gained valuable experience in project management, team collaboration, and data-driven decision-making in combination with the academic aspect of writing scientific papers and projects.

In my recent projects, I focused on developing machine and deep learning pipelines for various applications in manufacturing. I handled tasks from data collection to model implementation, and delved into time-series data analysis. Using Python and different data analysis tools, I gained practical experience in fundamental machine learning concepts. Through these projects, I discovered my passion for AI and am now seeking a job where I can continue working in this field.

Collaborating with skilled colleagues has shown me the importance of teamwork, setting clear milestones and working towards achieving them. Having a career in a flexible and productive environment and constant development of my professional skills plays a big part of my life and I am seeking a role in a company that aligns with these values and supports my growth.

EDUCATION

Master of Science (MSc) in Mechanical Engineering - Manufacturing Technology | Aalborg University

📅 2021. - 06 2023.   📍 Aalborg, Denmark

Bachelor of Science (BSc) in Mechanical Engineering | Faculty of Mechanical Engineering Slavonski Brod

📅 2021.   📍 Croatia

EXPERIENCE

Student Internship | HPC BIJUK d.o.o

📅 08 2020 – 11 2020   📍 Samobor, Croatia

- production of high-pressure couplings
- making programs for CNC machines (AutoCAD)
- making programs for machining centers (SolidWorks)

Facility maintenance | ASURA Group

📅 06 2019 – 07 2020   📍 Zagreb, Croatia

LANGUAGES

Lang 1: Croatian

Lang 2: English

Lang 3: German - basics

Lang 3: Danish - beginner

HOBBIES

Handball

Music production

Hiking

Cooking

REFERENCES

**Chen Li
(Assistant Professor)**
tilf: 5264 5576
mail: cl@mp.aau.dk

- managing technical documentation of electrical and engineering systems with the purpose of facility management
- cost analysis and experience in sales

PROJECTS

Time-Series Anomaly Detection for Industrial Screwing Task with Machine Learning Algorithms (Master) | Aalborg University, VELUX

📅 02 2023 – 06 2023   📍 Aalborg, Denmark

- system integration and simultaneous data collection (UR10 robot, PLC, Screwdriver Controller, sensors, microphone)
- creation of a diverse dataset (sensory data, robot data, audio data)
- dataset preparation and analysis
- anomaly detection ML/DL models

Real-Time Trust Assessment of Safe Human-Robot Collaboration | HORIZON2020 DrapeBot project

📅 09 2022 – 01 2023   📍 Aalborg, Denmark

- EU DrapeBot project
- trust dynamics in close proximity human-robot collaboration
- motion tracking with MVN Awinda
- data collection and processing
- signal processing and visualisation
- ML/DL pipeline and models

EXTRACURRICULAR ACTIVITIES

Board of European Students of Technology | BEST Zagreb

📅 2018 - 2020   📍 Zagreb, Croatia

AAU Case Competition 2023, Participant Telenor

📅 2023   📍 Aalborg, Denmark