

PROJECTS

Dino Lozina

Born 8 January 1986, Split, Croatia

Nationality Croatian

IT Skills

Programming languages

- C#
- Python

Tools

- Git
- Github
- Gitlab
- Postman
- Fiddler
- JIRA
- Axosoft
- Visual Studio
- Visual Studio Code

Frameworks

- .NET 5
- Blazor
- ASP.NET
- WPF
- .NET ML
- Camunda

Data bases

- MySQL
- PostgreSQL

Others

- jQuery
- OpenCV
- Halcon

Engeneering Skills

Programming

- Robot programming (ABB, FANUC, KUKA, Mitsubishi)
- PLC programming (Siemens, Mitsubishi, Schneider)
- HMI programming
- Camera interface programming

Tools

- TIA Portal
- Robot Studio
- RT ToolBox 2
- GX Works2
- Basler Pylon 6

Other

- Image processing
- Image manipulation
- Machine learning

IT Projects

12/2020 - today

Podravka, Koprivnica, Croatia

Specification, development, debugging, user support

C#, ASP.NET, WPF, jQuery, SQL

- Automation of payment order processes
- Developing email service that gathers relevant data
- Developing UI settings for consultant and testing teams
- Frontend development in .NET framework (WPF)

04/2020 - 12/2020

Financial Agency (Fina), Zagreb, Croatia

Specification, development, debugging, user support

C#, ASP.NET, jQuery, SQL, various OCR engines (Nicomsoft, Abbyy, Tesseract), machine learning (.NET ML), OpenCV, Camunda

- Automation of payment order processes
- Developing selfhost API
- Using machine learning to classify types of documents
- Using machine vision to classify types of documents
- Using OCR (Optical character recognition) to gather data from documents
- Using machine learning to correct wrong data points
- Frontend development (HTML, CSS, jQuery)

10/2019 - 04/2020

Vienna Insurance Group, Zagreb, Croatia

Development, user support, debugging, testing

C#, ASP.NET, jQuery, SQL, machine learning (.NET ML), OpenCV, Camunda

- Development of mobile application that automates insurance purchase
- Development of server-side services
- Using machine learning to classify types of documents
- Developing UI settings for consultant and testing teams
- Frontend development (HTML, CSS, jQuery)

10/2019 – today

University of Split, Split, Croatia

Conception, specification, development, implementation

Python, machine learning, machine vision, Open CV

- Solving robot pick and place tasks with machine vision
- Migration from .NET to Python and OpenCV
- Using open-source ML libraries
- Preparing documentation for lectures

10/2018 – 10/2019

University of Split, Split, Croatia

Conception, development, validation

C#, machine learning, machine vision, Halcon, robot programming

- Solving robot pick and place tasks with machine vision
- Conception of a machine vision software
- Using machine learning for object recognition
- Programming advanced robot functions
- Frontend development in .NET framework (WPF)
- Preparing documentation for lectures

01/2019 - 09/2019

Unior , Zreče, Slovenia

Team lead, product owner, conception, development, validation, commissioning

C#, WPF, SQL, machine vision, Halcon

- Development of an application for measurement of production workpieces (Pincers)
- Conception of a machine vision software
- Saving and managing data (SQL)
- Frontend development in .NET framework (WPF)
- Team management of 3 people

04/2018 - 01/2019

Omco, Hum na Sutli, Croatia

Team lead, product owner, conception, development, validation, commissioning

C#, WPF, SQL, machine learning, machine vision, Halcon

- Development of an application for measurement of production workpieces (Bottle molds)
- Conception of a software for control of measurement machine
- Gathering data from third-party machines
- Saving and managing data (SQL)
- Development of algorithm for production workpieces correction
- Frontend development in .NET framework (WPF)
- Team management of 3 people

08/2017 - 04/2018

Omco, Hum na Sutli, Croatia

Team lead, product owner conception, prototype development, validation, commissioning

C#, WPF, SQL, machine learning, machine vision, Halcon

- Developing prototype application for robot pick and place applications
- Developing machine vision software
- Using machine learning for object recognition
- Frontend development in .NET framework (WPF)
- Saving and managing data (SQL)
- Team management of 3 people

Engineering Projects

10/2016 - 6/2017

Walmart, Mebane, North Carolina, USA

Team lead, development, validation, commissioning

Robot Programming, machine vision programming, PLC programming

- Development of warehouse automation solutions
- Developing software for robots
- Setting up robot vision systems
- Team management of 5 - 10 people

01/2016 - 10/2016

Coca-Cola, Oceanside, California, USA

Development, validation, commissioning

PLC programming, Robot programming, commissioning

- Development of warehouse automation solutions
- Ensuring that the different protocols (security, I/O validation, etc.) has been performed
- Making sure that the industrial network is functional
- Controlling and ensuring the quality of installation and the final adjustments

01/2014 - 12/2015

Seaonics, Alesund, Norway

Conception, development, validation, commissioning

PLC programming, HMI programming, electrical drawings design

- Conception of a software for control of Electric Double Mooring Winch 100kN
- Conception of electrical drawings
- Setting up machine radio control
- Testing equipment on site

03/2013 - 01/2014

AdriaWinch, Split, Croatia

Conception, prototype development, validation, testing, commissioning

PLC programming, HMI programming, electrical drawings design

- Conception of a software for control of Electric Towing Winch 40kN
- Conception of electrical drawings
- Implementing safety features based on force measurement
- Developing software for HMI (Human machine interface)
- Testing safety features of equipment

03/2012 - 03/2013

AdriaWinch, Split, Croatia

Conception, prototype development, validation, testing, commissioning

PLC programming, HMI programming, electrical drawings design,

- Conception of a software for control of Anchor-mooring winch 66K3
- Developing software for automatic anchor mooring
- Developing software for HMI (Human machine interface)
- Testing safety features of equipment

03/2011 - 06/2011

**LASMEA (Laboratoire des Sciences et Matériaux pour
L'Electronique et D'Automatique), Clermon - Ferrand, France**

Master thesis research

FEKO

- Research for master thesis
- Collaboration between French colleges and home institution (FESB)
- Published paper on subject (Transmission Line Theory approach used on Typical Power Line Communication Structures)