

Mario Malić

Mechanical engineer with four years of experience in the NVH domain, known for strong attention to detail and a results-driven mindset.

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Work experience

VIBES.technology B.V. in Delft, The Netherlands

[website](#)

Junior Solution Engineer

Aug '25 - Present

Junior Project Engineer

Aug '24 - Jul '25

- Performed test-based modelling, measurements and post-processing of automotive components and assemblies (full vehicle, trimmed body, subframe, lower control arm, and bushings) to develop accurate component models
- Applied advanced VIBES methodologies (Virtual Point Technology, Dynamic Substructuring and Source Characterization) across multiple projects providing customers with actionable insights
- Orchestrated and implemented the backend of an e-learning environment, serving content to customers, colleagues and leads to significantly reduce the effort required for in-person and online software training
- Migrated software manuals to the e-learning using an improved documentation pipeline that enables seamless creation, maintenance and publishing
- Provided technical support to customers by answering inquiries, troubleshooting, and delivering solutions
- Supported the software development team through software testing, bug identification and reporting

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture in Split, Croatia

[website](#)

Junior Researcher

Mar '21 - Sep '23

- Created finite element models (verification) of insulating floors and performed experimental modal analysis (validation)
- Performed laboratory, field measurements and analysis of vibrations and noise as per ISO 2631, ISO 3382, and ISO 16283
- Developed scripts to extract CAD geometry data to create FEM model geometry using APIs
- 3D printed various tools and measuring apparatus
- Taught laboratory classes to students: Computer-Aided Design, Computer-Aided Analysis, Programming, Vibrations
- Dealt with project administration, equipment procurement and tender documentation

TMR Plastics in Bydgoszcz, Poland

[website](#)

Injection Moulding Operator

Mar '19 - Aug '19

- Visual inspection of the quality of moulded parts

Technical University Liberec in Liberec, Czech Republic

[website](#)

Trainee

Jun '16 - Jul '16

- Basic MCK modelling in MSC Adams to the obtain model dynamics

Education

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture in Split, Croatia

[website](#)

M. Sc. in Mechanical Engineering (Specialization in CAD and CAE)

Oct '16 - Sep '18

B. Sc. in Mechanical Engineering

Oct '12 - Sep '16

Software skills

Advanced CAD (Onshape, SolidWorks), CAE (ADINA), MATLAB, Microsoft Office, VIBES (DIRAC, SOURCE, COUPLE)

Basic Antora, AsciiDoctor, CAD (AutoCAD, CATIA, PTC Creo, Siemens NX), CAE (ANSYS), C, C# .NET, Git, NI LabVIEW, Python, VBA

Other skills and interests

Certificates:

- SolidWorks (CSWA – Mechanical Design)
- MATLAB (Programming Techniques, Fundamentals, Data Processing and Visualization, Signal Processing)
- Foundational C# with Microsoft
- A Hands-on Introduction to Engineering Simulations

Interests:

- NVH measurements and analysis, CAx (finite element modelling, optimization methods)
- Programming (improving workflows by task automation, developing applications for increased efficiency)

Activities:

- Authored and co-authored conference articles
- Contributing to online communities (MATLAB Answers, Stack Overflow)
- Participated in a few hackathons (Hackdays BW, EUvsVirus, VersusVirus)
- Alumni member of an international student association IAESTE

License:

- A, B

Hobbies:

- Cooking, music, badminton, yoga

Projects

[Deep drawing process optimization](#)

MATLAB application that couples FE simulation tool with optimization algorithms to improve process efficiency

[DAQx](#)

MATLAB app that enables easy data acquisition from NI DAQ devices

[Modal and experimental modal analysis of insulation floors](#)

FE simulation of an insulating floor used on ships and its experimental validation