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