THIJS MASMEIJER, MSc.

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SUMMARY

Thijs Masmeijer is a member of the Illimited LAB. He completed a Bachelors and Masters in Mechanical Engineering at the University of Twente, the Netherlands. Past research consists of the exploitation of dynamical properties to track crack propagation in composites and aluminum. This gained him experience in both experimental and numerical methods. Currently he is conducting his PhD at the Aeronautics and Astronautics department of the University of Washington. Here his research will be about bio-inspired features from spiders to gain new insights on Structural Health Monitoring and composite materials.

EDUCTIONIAL TRACK

University of Washington, Seattle, PhD. Aeronautics & Astronautics. 2021-current**.**
Focus: Dynamics of bio-inspired structures

University of Twente, Enschede, Master Mechanical Engineering. 2018-2021**.**
Focus: Fatigue, and Experimental Dynamics.

University of Twente, Enschede, Mechanical Engineering Bachelor. 2014-2018**.**
Minor: Aerospace Management

Montessori Lyceum Herman Jordan, Zeist. 2008-2014
Profile: **Nature and Physics**

WORKING EXPERIENCES

Service Desk employer at the University of Twente (part-time). 2018 – current

Partner at Start-up MESOR (part-time). 2017 – 2019

Student-assistant Dynamics of Mechanical Systems. 2017

TECHNICAL SKILLS

Experimental

Lab View, Laser Vibrometer, Vibration Testing, Dynamic Characterizations, Data Acquisition and Processing, Prototyping, and Machining.

Computer Aided Engineering

Abaqus, Ansys, SolidWorks, and Matlab.

RELEVENT SIDE ACTIVITIES

Chairman of the board at study association W.S.G. Isaac Newton 2016 – 2017

Full time board member. Leadership, Presenting, Organizational skills.

Winner Create Tomorrow 2017

Biggest student thinking tank in the world. Resulted in start-up MESOR.

LANGUAGES: Fluent in Dutch and English.

PUBLICATIONS

[1] T Masmeijer, Hybrid-Framework for damage precursor detection for aero-structures. Regional AR&S Conference, Aug 29, 2018.

[2] E Habtour, T Dragman, T Masmeijer, D Di Maio, A Homborg, T Tinga, Connecting nonlinearities: damage precursors detection and control methodology. Int Conf on Noise and Vibration Engineering. Leuven Belgium, Sep 17-19, 2018.

[3] E Habtour, T Dragman, T Masmeijer, Cost effective nonlinear identification of damage detection sensitivity in flexible structures. ASME journal of NDE, In preparations.

[4] Habtour, E., Di Maio, D., Masmeijer, T., Cordova Gonzalez, L., & Tinga, T. (2021). Highly sensitive nonlinear identification to track early fatigue signs in flexible structures. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 5(2).