

# MAUNG THANT

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## EDUCATION

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<b>KU Leuven</b>	Leuven, Belgium
MSc. - Artificial Intelligence	Sep. 2024 - Sep. 2025
Thesis: Globally and Locally Aligned Self-supervised Representation Learning in Multi-modal Medical Decision Support Systems [ <a href="#">Thesis</a> ] [ <a href="#">Slides</a> ]	
Advisor: <a href="#">Prof. Bart De Moor</a>	
Grade: Less than 1% below Magna Cum Laude	CGPA: 76.17/100
MSc. - Electronics and ICT Engineering Technology	Sep. 2022 - Feb. 2024
Thesis: Vision-based Robotic Grasp Pose Estimation with Screw Constraints for Electronic Devices from Conveyor Belt [ <a href="#">Thesis</a> ] [ <a href="#">Slides</a> ]	
Advisor: <a href="#">Prof. Jef Peeters</a>	
Grade: Cum Laude	CGPA: 70/100
BSc. - Engineering Technology	Sep. 2019 - Sep. 2022
Thesis: Health Monitor System for Detecting and Predicting Asthma Attacks [ <a href="#">Video</a> ]	
Advisor: <a href="#">Prof. Lucca Geurts</a>	
Grade: Cum Laude	CGPA: 68/100
<b>University of Medicine 1</b>	Yangon, Myanmar
MBBS. - Bachelor of Medicine, Bachelor of Surgery	Sep. 2018 - Aug. 2019
Transferred out to study at KU Leuven	

## PUBLICATIONS

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<b>Vision-Based Robotic Grasping with Constraints for Robotic Demanufacturing</b> <a href="#">[Paper]</a> <a href="#">[Poster]</a>
Mohammad Mahin Shoaib, <u>Maung Thant</u> , ChuangChuang Zhou, Jef Peeters, and Karel Kellens. In 2024 Electronics Goes Green 2024+ (EGG). IEEE, 2024.

## RESEARCH EXPERIENCES

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<b>Research Assistantship</b>	Nov. 2025 - Present
Remote	
<ul style="list-style-type: none"><li>Conducting research on continual model selection for tool learning in continual learning systems under the supervision of <a href="#">Prof. Vincenzo Lomonaco</a>.</li></ul>	
<b>Research Assistantship</b>	Jul. 2025 - Sep. 2025
Department of Computer Science, KU Leuven	Leuven, Belgium
<ul style="list-style-type: none"><li>Developed an OCR-based system to automate biospecimen documentation for museum digitization, evaluating multiple models (SAM Meta, YOLO11s-OBB, docTR, Open-OCR, Tr-OCR) and integrating template matching, Levenshtein distance, and custom data labeling. Established a neural baseline to benchmark against neuro-symbolic approaches under the supervision of <a href="#">Prof. Luc De Raedt</a>.</li></ul>	

**Research Assistantship**

Department of Electrical Engineering (ESAT), KU Leuven

Sep. 2022 - Feb. 2023

Leuven, Belgium

- Conducted research on spatial separation, note onset detection, and pitch estimation of musical instruments recorded with a circular microphone array for automatic polyphonic music transcription. Evaluated the pipeline using recordings from mock group music therapy sessions under the supervision of [Prof. Toon van Waterschoot](#). [[Paper](#)]

**PROFESSIONAL EXPERIENCES**

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**Full-stack Software Developer**

Mindspeller

Feb. 2024 - Jul. 2024

Herent, Belgium

- Developed front-end and back-end components to clean and process user survey data, integrating with the company's database using Python, HTML, CSS, and SQL.

**Data Scientist**

Access-To-Medicines, Faculty of Economics and Business, KU Leuven

Jul. 2023 - Sep. 2023

Leuven, Belgium

- Developed an interactive data visualization interface linked to a database at the research lab of [Prof. Nico Vandaele](#). Migrated statistical code from R to Python and integrated it into the interface.

**EXTRA-CURRICULAR EXPERIENCES**

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**Deep Learning Engineer**

Emergent Leuven

Oct., 2024 - Jan. 2025

Leuven, Belgium

- Fine-tuned and implemented Keras-OCR AI model to detect text from video game images for the project client [Say It Labs](#). Extracted text was used for synthetic pronunciation in speech therapy applications.

**Deep Learning Engineer**

Emergent Leuven

Mar. 2024 - Jul. 2024

Leuven, Belgium

- Fine-tuned and deployed a YOLOv8 model for traffic signs detection for the project client [Innoptus Solar Team](#) (Current World Champion). The model was used in South Africa to automate traffic signs and speed limit data collection, supporting route planning and race strategy.

**Machine Learning Engineer**

NeuroTech Leuven

Jul. 2023 - Jul. 2024

Leuven, Belgium

- Implemented a feature extractor and gradient-boosted classification pipeline for real-time EEG based recognition of four emotions during gameplay of "The Witcher 3". In-game weather and environment adapted dynamically to player emotions.
- Demo: [YouTube](#).

**Business Relations**

NeuroTech Leuven

Jul. 2023 - Jul. 2024

Leuven, Belgium

- Led the Business Relations team, coordinating outreach and meetings with local and international companies to secure partnerships, sponsorships, and collaborations. Helped with organizing the [MindSeed 2024](#) event. [[YouTube](#)] [[Faculty news](#)]

**Member of International Function**

Industria vzw

Jul. 2020 - Jul. 2021

Leuven, Belgium

- Organized social and exam-prep events for international and first-year students at Campus Group T, KU Leuven.

## TEACHING ASSISTANT EXPERIENCES

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**Artificial Neural Networks and Deep Learning (H02C4A, Graduate)** Feb. 2025 - Jun. 2025  
KU Leuven Leuven, Belgium

- Instructed and guided weekly exercise sessions for over 150 international students, covering foundational and advanced neural network concepts under the supervision of [Prof. Johan Suykens](#).

**Support Vector Machines: Methods and Applications (H02D3A, Graduate)** Apr. 2025 - Jun. 2025  
KU Leuven Leuven, Belgium

- Instructed and guided weekly exercise sessions for over 100 international students on theoretical and applied aspects of SVMs under the supervision of [Prof. Johan Suykens](#).

**Introductory course of Mathematics (Introductory Course)** Sept. 2023 - Oct. 2023  
KU Leuven Leuven, Belgium

- Instructed and guided weekly exercise sessions for over 200 international students on basic concepts in linear algebra and calculus under the supervision of [Prof. Toon van Waterschoot](#).

**Fundamentals of Mathematics (T1AWB2, Undergraduate)** Sept. 2022 - Jan. 2023  
KU Leuven Leuven, Belgium

- Instructed and guided weekly exercise sessions for over 60 international students in linear algebra and calculus fundamentals under the supervision of [Prof. Toon van Waterschoot](#).

**Electronic Circuits (T1ESCE, Undergraduate)** Feb. - Jun. 2021, 2022, 2023  
KU Leuven Leuven, Belgium

- Instructed and guided weekly exercise sessions for over 60 international students in circuit analysis and electronics under the supervision of [Prof. Lucca Geurts](#).

## INVITED TALKS

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**Globally and Locally Aligned Self-supervised Representation Learning in Multi-modal Medical Decision Support Systems** Jun. 2025  
[\[Slides\]](#)

- Presented at the research group meeting of [Prof. Yves Moreau](#).

## AWARDS AND HONORS

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First Place - Learning Garage of KU Leuven Mar. 2023  
First Place - R&D Experience Project Competition (T47UXW) Feb. 2023  
Erasmus+ Scholarship Sep. 2021 - Feb. 2022

- Completed a semester abroad at Politecnico di Torino under the Erasmus+ Traineeship Program.

## SKILLS

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<b>Computer Programming</b>	Python, C, C++, Matlab, Java, HTML, Javascript
<b>Deep Learning Tools</b>	PyTorch, Tensorflow
<b>Soft Skills</b>	Leadership, Communication, Team Work, Work Ethic
<b>Languages</b>	Myanmar (Native), English (Fluent)

## MEDIA

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Thant Maung Discovers the Metaverse and Wins [\[Campus Magazine\]](#)