

# 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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**Vision-Based Robotic Grasping with Constraints for Robotic Demanufacturing**  
[\[Paper\]](#) [\[Poster\]](#)  
Mohammad Mahin Shoaib, Maung Thant, 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>	Jul. 2025 - Sep. 2025
Department of Computer Science, KU Leuven	Leuven, Belgium
<ul style="list-style-type: none"><li>Implemented OCR AI models for automating biospecimen documentation in a museum digitization pipeline, using SAM Meta, YOLO11s-OBb, docTR, Open-OCR, and Tr-OCR. Created a neural baseline for comparisons with neuro-symbolic methods in <a href="#">Prof. Luc De Raedt</a>'s lab.</li></ul>	
<b>Polyphonic Music Transcription Through Spatial Audio Recording</b>	Sep. 2022 - Feb. 2023
<a href="#">[Paper]</a> - Advisor: <a href="#">Prof. Toon van Waterschoot</a>	
<ul style="list-style-type: none"><li>Researched on spatial separation, note onset detection, and pitch estimation of musical instruments recorded via a circular microphone array in mock music therapy sessions. The complete pipeline is evaluated using data obtained from recordings of mock group music therapy sessions.</li></ul>	

## PROFESSIONAL EXPERIENCES

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**Full-stack Software Developer** Feb. 2024 - Jul. 2024  
Mindspeller 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** Jul. 2023 - Sep. 2023  
Access-To-Medicines, Faculty of Economics and Business, KU Leuven 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** Oct., 2024 - Jan. 2025  
Emergent Leuven 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** Mar. 2024 - Jul. 2024  
Emergent Leuven 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** Jul. 2023 - Jul. 2024  
NeuroTech Leuven 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 Link](#).

**Business Relations** Jul. 2023 - Jul. 2024  
NeuroTech Leuven 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. [\[YouTube Link\]](#) [\[Faculty news\]](#)

**Member of International Function** Jul. 2020 - Jul. 2021  
Industria vzw 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

**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

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

<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)

### HOBBIES

<b>Books</b>	Odyssey (Homer), Iliad (Homer), Paradise Lost (John Milton), The Divine Comedy (Dante)
<b>Sports</b>	Swimming

### MEDIA

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