

# IZZEDDIN TEETI

Oxford, OX3 0BP, United Kingdom  
Skype: Ezz.Titi

Oxford Brookes University  
LinkedIn/Izzeddin

Mobile: +447446198715  
[izzeddin.teeti@gmail.com](mailto:izzeddin.teeti@gmail.com)

## EDUCATION & SELECTED AWARDS

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**D.Phil (PhD) Autonomous Vehicles Technologies. Oxford Brookes University, UK** *Jan 2021 - present*

- Research topic: *Novel Deep Neural Network Architecture for Intention & Trajectory Prediction in Autonomous Driving.*
- Project lead for Oxford Brookes Racing Autonomous team.
- Supervisors: Prof Fabio Cuzzolin, Dr Andrew Bradley.

**M.Sc Robotics (with distinction). King's College London, UK** *Sep 2018 - Sep 2019*

- Thesis: “*An Innovative Automated Assessment System for Engineering Drawing Sheets*”. Based on Computer Vision.
- Supervisor: Dr. Michael Spratling, a Reader in Computational Neuroscience and Visual Cognition.
- Overall Score = Distinction.
- Prize for the best overall performance on the MSc in Robotics for the 2018-2019 cohort.

**B.Sc Mechanical Engineering (Excellent). American University of Madaba, Jordan** *Sep 2012 - Aug 2016*

- Final year project: “*Autonomous Tracking Vehicle*”. Based on Machine Learning and Computer Vision.
- Overall GPA = 93.1%, excellent.
- Graduated with the first rank among engineering graduates (2016).
- Certificate of Academic Excellence and Dean's List (Semester average  $\geq 84\%$  ) for all semesters (2012 - 2016).
- Undergraduate Academic Excellence Scholarship for four successive years

**National High School Diploma (Tawjihi) in Scientific Stream. Arroub High School, Palestine** *2012*

- Overall Score = 98.7%.
- Award for being within the top three matriculants regionally.

## INTERNSHIPS & SUMMER SCHOOLS

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**Incoming Applied Science Intern, [Amazon, Berlin, Germany](#)** *Nov 2022 - March 2023*

- Incoming intern at Amazon Germany.

**International Computer Vision Summer School (ICVSS), [Sicily, Italy](#)** *July 2022*

- Attended the summer school and presented a poster.

**Data Science Intern, [Bayt.com, Amman, Jordan](#)** *June 2016 - Aug 2016*

- Searched some techniques in Natural Language Processing (NLP), apply them using Python to improve the CV-processing algorithm for Bayt company (one of the largest employment agencies in the Middle East).
- Contact: Yousef Sawalha - [y.sawalha@bayt.com](mailto:y.sawalha@bayt.com)

## SCHOLARSHIPS, GRANTS & AWARDS

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- International Joint Conference of Artificial Intelligence (IJCAI) Registration and Travel Grant (925 \$). *2022*
- Essay Competition Award at the International Computer Vision Summer School (ICVSS). *2022*
- Oxford Brookes University Full-time Funded Research (DPhil) Studentship (100,000 £). *2021 - 2023*
- King's College London and the British Council full scholarship (42,990 £). *2018 - 2019*
- King Abdullah II Design and Development Bureau sponsorship for undergraduate projects (2,800 \$). *2016*
- The American University of Madaba tuition fees Scholarship for excellent students (27,000 \$). *2012 - 2016*

## WORK EXPERIENCE

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### AI Project Lead

*Oxford Brookes Racing Autonomous Team*

Feb 2021 - present

*Oxford, UK*

- Leading a team of 25 BSc and MSc students in developing an autonomous driving system for Formula-1 car. The team won 1<sup>st</sup> and 2<sup>nd</sup> places in UK IMechE Formula Student AI 2020 and 2021 competitions, respectively.
- Writing the team's yearly plan and milestones. Supervising budget, recruitment, and research&industry connections.
- Contact: Dr Andrew Bradley - [abradley@brookes.ac.uk](mailto:abradley@brookes.ac.uk)

### Robotics Lecturer, Full-time

*Al-Zaytona University of Science and Technology*

Sep 2020 - Jan 2021

*Ramallah, Palestine*

- Delivered courses and supervised labs for the BSc Robotics programme.
- Participated in modifying the BSc Robotics programme's structure to include latest technology and suit market needs.
- Contact: Dr Fahoum Shalabi - [fahoum.shalabi@zust.edu.ps](mailto:fahoum.shalabi@zust.edu.ps)

### Machine Learning Engineer, Full-time

*Alpha Omega Biomedical Engineering*

Nov 2019 - Aug 2020

*Nazareth*

- Applied LSTM to build a GPi-navigation software that classified microelectrode recordings series and detected the Striatum-GPe-GPi borders online in Parkinson's disease, with an accuracy of 91.1%.
- Worked inside the operating room with high credentials neurologists, observed the algorithm's performance, recorded feedback, and modified the algorithm accordingly.
- Worked within an AGILE environment and wrote the Software Requirements Specification (SRS) for the GPi-Navigation software.
- Contact: Dr Amir Abedelqadir - [a.abedelqadir@alphaomega-eng.com](mailto:a.abedelqadir@alphaomega-eng.com)

### Research and Teaching Assistant, Full-time

*Birzeit University*

Sep 2016 - June 2018

*Ramallah, Palestine*

- Delivered laboratories, such as Control, Technical and Mechanical Drawing, Vibrations, Thermal Applications, Mechanics.
- Designed experiments in the labs, and delivered professional skills workshops for the students.
- Helped the department with administrative tasks and invigilate exams and tests.
- Contact: Mohammad Al Karaeen - [mkaraen@birzeit.edu](mailto:mkaraen@birzeit.edu)

### Research and Teaching Assistant, Part-time

*Palestine Polytechnic University*

Sep 2017 - June 2018

*Hebron, Palestine*

- Delivered Mechanical Drawing lab, and discussion lectures for Dynamics, Machines Dynamics, and Control Theory.
- Contact: Iyad Hashlamon - [iyad@ppu.edu](mailto:iyad@ppu.edu)

## RESEARCH

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### Publications

- **I. Teeti**, S. Khan, A. Shahbaz, A. Bradley, and F. Cuzzolin. *Vision-based Intention and Trajectory Prediction in Autonomous Vehicles: A Survey*. Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence (IJCAI22).
- A. Kanacı, **I. Teeti**, and F. Cuzzolin. *Self-Supervised Pretraining for Object Detection in Autonomous Driving*. Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence (IJCAI22).
- **I. Teeti**, V. Musat, S. Khan, A. Rast, F. Cuzzolin, and A. Bradley. *Vision in adverse weather: Augmentation using CycleGANs with various object detectors for robust perception in autonomous racing*. Safe Learning for Autonomous Driving Workshop at International Conference on Machine Learning (ICML22).
- A. Benjumea, **I. Teeti**, F. Cuzzolin, and A. Bradley. *YOLO-Z: Improving small object detection in YOLOv5 for autonomous vehicles*. International Conference of Computer Vision (ICCV21).
- I. Fursa, E. Fandi, V. Musat, J. Culley, G. Esteller, **I. Teeti**, L. Bilous, I. V. Sluis, A. Rast, and A. Bradley. *Worsening Perception: Real-Time Degradation of Autonomous Vehicle Perception Performance for Simulation of Adverse Weather Conditions*. SAE International Journal of Connected and Automated Vehicles (SAE Intl. J CAV 2022).

## Patents

- Teeti, Izzeddin. 2020. Innovative Automatic Assessment System for Engineering Drawing Sheets. Palestine Patent 355, filed Oct 3, 2019, and issued Dec 15, 2020.

## Reviewing

- Serving as a reviewer in reputed conferences including NIPS, BMVC, WACV, CSA.

## Invited Talks

- AI in Medical Applications, Palestinian Medical Students Association, Hebron University. Feb 2022
- AI in Self Driving Cars, Google Developer Student Club at Palestine Polytechnic University. Dec 2021
- Weaponized Computer Vision, ArabWIC Palestine. May 2020

## SKILLS

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<b>Programming</b>	Python, MATLAB, C++, Visual Basic, R, TCL
<b>Framework</b>	Machine Learning ( <i>PyTorch</i> , <i>TensorFlow</i> ), Autonomous Cars ( <i>CARLA</i> ).
<b>Software</b>	ANSYS, CATIA, SolidWorks, PTC Creo, AutoCAD, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office
<b>Languages</b>	English ( <i>Proficient User</i> ), Arabic ( <i>Native</i> ), German ( <i>Beginner</i> ), Spanish ( <i>Beginner</i> )

## LEADERSHIP & EXTRACURRICULAR

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**Founder** Fall, 2019  
*Palestinian Artificial Intelligence Community* Palestine

- I created the first Palestinian AI community which gathers the top students in a sustainable network that enhances their theoretical background and sharpens their practical skills.

**Participant** Fall, 2016  
*World Youth Alliance* Amman, Jordan

- I participated in the Emerging Leaders of the Arab Region Program run by the World Youth Alliance (WYA).

**Junior Consultant, Volunteer** 2015 - 2016  
*Palestinian Medical Society* Bethlehem, Palestine

- I helped the staff in launching their YouTube channel, and in implementing their campaign to their local communities.

**Volunteer** 2014 - 2015  
*Our Lady of Peace Center, Theodor-Schneller-Schule* Amman, Jordan

- I volunteered to cheer children with special needs and children at orphans' schools.

**Tourist Guide** Summer, 2013 & Summer, 2014  
*Tent of Nations* Bethlehem, Palestine

- I escorted groups of tourists around the West Bank, explaining the history of each, and coordinate between the groups.

## REFERENCES

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### Prof. Fabio Cuzzolin

Professor of Artificial Intelligence  
Director of the VAIL Laboratory  
School of Eng., Comp. and Math.  
Oxford Brookes University  
[fabio.cuzzolin@brookes.ac.uk](mailto:fabio.cuzzolin@brookes.ac.uk)  
(+44) 01865 484526

### Dr. Michael Spratling

Reader in Computational Neuroscience  
and Visual Cognition  
Department of Informatics  
King's College London  
[michael.spratling@kcl.ac.uk](mailto:michael.spratling@kcl.ac.uk)  
(+44) 020 7848 2027

### Dr. Amir Abdelqadir

Scrum Master, Development Manager  
Research and Development  
Alpha Omega Biomedical Engineering  
LTD  
[a.abedelqadir@alphaomega-eng.com](mailto:a.abedelqadir@alphaomega-eng.com)  
(+972) 54 286 5234