



CONTACTS

- Tartu
- miriamcalafa00@gmail.com
- <https://miriamcalafa.github.io/>
- [Miriam Calafa'](#)

DIGITAL SKILLS

- ROS2
- Python
- C++
- SQL
- SolidWorks: CSWA certification
- Project management
- PLC
- Human-Computer Interaction

LANGUAGES

- Italian: native speaker
- English: C1 certification
- Spanish: intermediate
- Estonian: A2 level

PROJECTS

Details and more projects in my [PORTFOLIO](#)

- ML final grade prediction
- Algorithmics: SCOPA
- Project in Competitive Robotics
- Human-Computer Interaction

SKILLS

- Communication
- Agile Management
- Leadership
- Problem-Solving
- Time Management

MIRIAM CALAFA'

ROBOTICS AND COMPUTER ENGINEER

Multidisciplinary engineer with expertise in automation and robotics, enriched by psychological and sociological insight. Experienced in designing multimodal emotional behaviors for empathic human-robot interaction, with additional training in leadership and technology management.

CONFERENCES & PUBLICATIONS

- **Poster Presenter, ENLIGHT Teaching & Learning Conference, Stockholm, Oct 2025.** Awarded the Inclusion Award for MSc thesis project on Emotional Expressions for a Robot Study Companion.
- **M. Calafa, F. Baksh, M. B. Zorec, and K. Kruusamäe, "Emotive Design of a Robot Study Companion to Support University Learning,"** in Proc. IEEE Int. Symp. Robot. and Human Interactive Commun. **RO-MAN**, Eindhoven, Netherlands, Aug. 2025.

HONORS & AWARDS

- **Inclusion Award**, ENLIGHT (2025)
- **Top Graduate Recognition** – Presidential invitation (2025)
- **Achievement Stipend**, University of Tartu (2024)

WORK EXPERIENCE

Online Python Tutor

Kodland | Remote | Nov 2024 – Present

- Deliver interactive, beginner-friendly Python programming lessons to groups of students in an online learning environment
- Support students' learning through live coding sessions, challenges, and project-based activities, promoting engagement

Software Developer

Microstudio Srl | Italy | Sep 2022 – Jun 2023

- Developed a warehouse control and management system
- Programmed using C# and SQL and released iteratively with new features and bug fixes, ensuring system reliability and scalability
- Collaborated with cross-functional teams to align software functionality with operational needs

EDUCATION

MSc in Robotics and Computer Engineering

University of Tartu | 2023 – 2025 | **GPA: 4.95** | **Cum Laude** | Achievement Stipend recipient

- Thesis: "Designing Multimodal Emotional Expression for a Robotic Study Companion" integrating literature review, ROS2 digital twin, and a user study (N=47) using UEQ and semi-structured interviews.
- Optional specialization module in Management, covering topics such as Innovation Strategy, Business Analysis, and Project Management.
- Participated in the Leadership Programme (7.75 ECTS) with certificate for advanced leadership, teamwork, and personal development
- Been a Peer Tutor for 92 first-year year MSc students

Single Courses in Robotics, Management, and Leadership

Politecnico di Milano | 2022 – 2023

- Completed 30 additional ECTS credits to deepen interdisciplinary expertise

BSc in Automation Engineering

Politecnico di Milano | 2019 – 2022 | the top 5% of class

- Built a strong foundation in mathematics, physics, control theory, mechatronics, industrial automation

Erasmus+ Exchange Program

Universidad Politécnica de Madrid | 2021 – 2022

- Completed one semester abroad