

ELEONORA POLLINI

Biomedical engineer with a strong interest in medical robotics and augmented reality

PERSONAL INFORMATION

Milano

Date of birth: 13/08/2000 Mobile number: +39 3663174207 E-mail: eleonora.pollini@mail.polimi.it Linkedin: www.linkedin.com/in/e-pollini

LANGUAGE SKILLS

- Italian Native speaker
- English C1: Cambridge English Level 2 Certificate in ESOL International (First) Grade A, with an overall score of 182
- Spanish B2

COMPUTER SKILLS

- Programming languages MATLAB, C++ in ROS, C# in Unity, C, Python
- Frameworks Unity, ROS (Robot Operating System)
- Programs 3D Slicer
- CAD Autodesk Fusion
- Others Suite Office

EXTRA CURRICULAR ACTIVITIES

Buddy Project 2023 Politecnico di Milano

Assistance to international students in the phase preceding their arrival in Italy and during their first period of stay in Milan and at Politecnico.

Link to certificate

Tour guide for international students | 2025 | Politecnico di Milano

Students collaboration activity to show the campus to new international students, during the Welcome Week.

EDUCATION

MASTER OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING 2022 - 2025 | Politecnico di Milano

Faculty: BTE - Biomedical Technologies for Electronics

Thesis: Autonomous Robotic Transseptal Puncture for Enhanced Cardiac Minimally Invasive Surgery

Final mark: 110/110 summa cum laude

♦ ERASMUS+ PROGRAMME

Jan 2023 - June 2023 | Universidad Politécnica de Madrid

Faculty: ETSIT – Escuela Técnica Superior de Ingenieros de Telecomunicación

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

2019 - 2022 | Politecnico di Milano

Thesis: Development of a public dataset from robot-assisted radical prostatectomy for surgical workflow and context recognition

Final mark: 109/110

HIGH SCHOOL DIPLOMA

2014 - 2019 | Liceo scientifico Giovanni Gandini Lodi, Italy

Final mark: 100/100

RELEVANT PROJECTS

OPTIMIZATION OF FUNCTIONAL ELECTRICAL STIMULATION (FES) STRATEGY FOR CYCLING

Nov 2023 - Dec 2023 | Politecnico di Milano

The project was a group activity of the Neuroengineering course focused on identifying a muscle fatigue index from an EMG during a cycling exercise on a trike, using MATLAB.

YouTube link

AUGMENTED REALITY (AR) IN RADIOTHERAPY Sep 2023 - Jan 2024 | Politecnico di Milano

The project was a group activity of the Medical Robotics and Technologies for Computer Aided Surgery Laboratory course and concerned the development of an AR interface, using Unity, to empower clinicians in 3D visualization of patient lesions, CT scans, and treatment plans in pre-operative phase, while keeping the current standard 2D visualization, using Microsoft HoloLens 2.

PUBLICATIONS

• Z. Chen, A. Pierini, E. Pollini, R. Salama, T. Pauvel, E. Lievore, G. Ferrigno, and E. De Momi. 2023. RARPL6: Development of A Clinical Dataset for Surgical Workflow Recognition from Robot Assisted Radical Prostatectomy with Lymphadenectomy. In Proceedings of the 2023 8th International Conference on Biomedical Signal and Image Processing (ICBIP '23). Association for Computing Machinery, New York, NY, USA, 98–103.

Publication link