

Francesco Pascucci

Mechanical Engineer

Education

2017 - 2019

Master of Science Degree in Mechanical Engineering at Politecnico di Milano - 104/110

I chose *Virtual Prototyping* track to learn how to design prototypes of industrial products using reverse engineering techniques and how virtual and augmented reality can support industrial production. The course offers also fundamentals to model the behaviour of non-metallic materials in Abaqus and to monitor the structural integrity of a components during the whole life cycle by means of Non Destructive Testings.

Graduation Thesis: Probability of Detection of Computed Tomography applied to Metal Additive Manufacturing.

Participation to MAM 2018 as co-author of the presentation “Non destructive evaluation and testing of metal AM”.

2013 - 2017

Bachelor Of Science Degree in Mechanical Engineering at Politecnico di Milano - 97/110

Bachelor Degree Group-Project: Design of a Rehabilitation System for a Paralysed Hand due to Stroke

Work Experience

Jan 2020 - June 2020

Internship at Eurosicma Spa - Packaging Solutions (Segrate MI)

I worked in the after-sales office producing spare parts tables for the machines produced by the company.

Jul 2020 - Present

Research Grant at Università degli Studi di Verona

“Biofeedback Wearable and Environmental Technologies for Postural Correction”. I’m working in a joint collaboration between the Departments of Computer Science and Sport Science. During this year I worked mainly in the Biomechanics Laboratory. I learned how to prepare a data collection protocol, design experimental set-up and . I also conducted practical laboratories and lessons involving biomechanics data collection and analysis in the Sport Science Master Degree.

Research

Scientific Publications

Cesari, P., Cristani, M., Demrozi, F., Pascucci, F., Picotti, P.M., Pravadelli, G., Tomazzoli, C., Turetta, C., Workneh, T.C., Zenti, L. (2021). Biofeedback technologies with wearable intelligent devices for posture and gait evaluation improvement, based on movement anticipation: experimental design. (Submitted to Sensors)

Conference Proceedings (refereed)

Montani, V., Pascucci, F., Colombari, E., Savazzi, S. And Cesari, P. Action Performance in Shaping Conscious Behaviour. *8th Internation Conference on Spatial Cognition, September 13-17 2021.* (Abstract Accepted)

Language Skills

Italian

Native Language

English

Good - TOEIC: 935/990

Computer Skills

During the academic path I learned to use the major CAD, FEM and reverse engineering software. I have an excellent knowledge of Matlab and good notions of C++, Python, Arduino and LabView. Vicon Nexus is the motion capture software used in the Biomechanics laboratory.