

EMANUELE ANDREOLA



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EXPERIENCE

Project Eng/Mang (R&D) - LimaCorporate spa, S.Daniele d.F. (IT) 11/2016 – today

LimaCorporate is a medical devices company operating in orthopaedics. I joined the ProMade engineering team, where patient specific implants are developed.

I am currently at the lead of the Lower Limbs Team, a 6 people engineering group dedicated to hip and knee customised solutions. As Project Engineer I personally interact with the surgeon along the whole project lifecycle: starting from CT analysis, implant design, surgical planning, production follow up and, eventually, Operative Room Assistance.

Engineer, Acciaierie Bertoli Safau spa, Udine (IT) 01/2016 - 11/2016

I was selected in the ABSNext project. During this year I joined three different departments of the factory, getting a comprehensive view of the whole production process.

Special Research Student, Tohoku University, Sendai (Japan) 04/2015 – 09/2015

Tohoku Daigaku is one of the most prestigious universities in Japan: it's Materials Engineering college ranks 1st among Japanese Universities. I joined the Metallurgy Department research facility working on a self-driven alloy design project for a period of six months. The target of my mentor professor and I was to develop a novel metal matrix composite for biomedical application, combining satisfactory mechanical properties and MRI artefacts reduction.

Internships, DhE srl, Follina (TV), Italy 2008 and 2010 summer

During the three months long school summer breaks I worked in the DhEsrl products quality management laboratory.

EDUCATION

University of Trento, Master in Materials Engineering

2013 – 2015 (110/110 with honour)

My thesis work consisted in the 6-months research project I carried out in the Tohoku University, Japan.

University of Trento, Bachelor Industrial Engineering

2010 – 2013 (91/110)

My thesis work was about the mechanical properties and heat treatments of 15-5 PH steel samples produced by Selective Laser Melting technique.

Liceo Scientifico Tecnologico, Montebelluna (TV)

2005 – 2010 (87/100)

STEM focused high school. In particular I studied math, physics, chemistry, biology, programming, design, astronomy and geology.

PROJECTS

Custom Made orthopaedic implants

as Limacorporate ProMade Eng.

Design of over 60 customised orthopaedic implants successfully implanted since 2016.

Development of novel Zr metallic composite with low magnetic susceptibility

04/2015 – 09/2015 (Tohoku University, JP)

My research aimed to study the feasibility of a novel zirconium metallic matrix composite for implantable devices.

My advisor, ass.prof Nomura, has been working on Zr binary alloys for several years now. In my project, for the first time, a Zr-Mo quasi-alloy was produced by means of Spark Plasma Sintering, and its microstructure, mechanical and magnetic properties were studied.

Product design consultancy, DhE srl

2014

During my university studies I kept in contact with DhE srl. In 2014 I aid in the dimensioning of two pressure vessels, using ANSYS FEM simulator software to optimise the design.

Heat treatments design of 15-5PH steel produced by SLM

2013

My bachelor thesis was part of a graduate student project commissioned by GE, consisting in designing the heat treatment parameters for SLM 3D-printed power turbine component.

LANGUAGE SKILLS AND CERTIFICATES

Certificates:

English level B2 University of Trento, July 2014

PET (English level B1) Cambridge University, #0018173554, July 2007

On the job learning of English:

- **Limacorporate:** everyday use with clients (surgeons)
- **Tohoku University (Japan):** 6 months research programme, I was the only one Italian in the department.
- **Exchange program (New Zealand):** 6 months, hosted in a local family and the only one Italian in the local high school.

ORGANISATION AND VOLUNTEER

The American Association for the Advancement of Science

<http://www.aaas.org/>

CAI

Italian alpine club

ADMO

Italian bone marrow donor association

AVIS

Italian blood donor association

UNICEF

Donor