

Antonio David Raiolo

Student - M.Sc. Process engineering

Personal data

Name Antonio David Raiolo
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Education

Since 2018 **MSc.**, *Process engineering*, University of Stuttgart, Germany, Current Grade: 1.2.
2015–2018 **BSc.**, *Process engineering*, University of Stuttgart, Germany, Grade: 1.8.
2014–2015 **BSc.**, *Physics*, (1 Semester), Ruprecht-Karls-University Heidelberg.
2011–2014 **High School Certificate**, *Kerschensteinerschule Stuttgart*, Technisches Gymnasium, Grade: 1.5.
2011–2014 **Vocational training**, *Physics-Technical Assistant*, Kerschensteinerschule Stuttgart, Germany.
2008–2011 **High school**, *Liceo Scientifico Giotto Ulivi*, Borgo San Lorenzo, Florence, Italy.

Master thesis (in progress)

Phase-field simulations of crystals anisotropy and sintering using an FEM-based framework.

Bachelor thesis

Experimental and simulative investigation concerning an online-method to measure nanoparticle agglomerate stability.

Work experience

2019 July. - **Internship**, *Robert Bosch GmbH*, Renningen, Germany.
Oct. Worked as intern at the corporate research branch CR/ARF2 Contact Dynamics and Tribology at Renningen, Stuttgart.
-Investigation on the oil release behavior of lubricating greases: Parameter studies on temperature, test method, grease type and test duration.
-Characterization of the dielectric properties of greases: Conduct and evaluate parameter studies on temperature, fat type, aging and shear rate.
-Operation and process optimization of a plastic injection molding machine.

- 2018 Nov. - **Student Research Assistant**, *Institute of Chemical Process Engineering*, University of
 2019 Apr. Stuttgart, Germany.
 Worked as student assistant on measurement of nanoparticle agglomerate stability
- 2018 Jan. - **Student Research Assistant**, *Institute of Chemical Process Engineering*, University of
 Juni Stuttgart, Germany.
 Worked on improving the design of experimental setups used by students, which helps them learn
 how to control and program external components using LabView software.
- 2015 Sep. - **Internship**, *TRUMPF GmbH + Co. KG*, Stuttgart, Germany.
 Oct.
- 2015 June - **Internship**, *Flint Group Germany GmbH*, Stuttgart, Germany.
 Aug.
- 2014 June - **Internship**, *Max-Planck-Institute for Solid State Research*, Stuttgart, Germany.
 Sep. Internship in a nanostructuring lab.
 - Study the granularity of metal layers (gold, chromium) of a few nanometers thickness produced
 under various vapor deposition conditions, by means of a Scanning Electron Microscope (Zeiss
 Merlin).
 - Calibration of the deposition rate for different metal layers (Fa. Leybold, Univex).
 - Establishing standard processes for cleaning semiconductor samples of paint residues (For optical
 lithography and electron beam lithography) by means of a newly installed Plasma etching system
 (Fa. Servants, Pico).
 - Preparing test samples by optical lithography.

Skills

- Programming languages: C, C++, MATLAB
- Tools & Softwares: MATLAB, PRISMS-PF, ANSYS Fluent/Mechanical, LabVIEW, L^AT_EX, MS Office
- OS: Windows, Linux

Languages

German	<i>mother tongue</i>
Italian	<i>mother tongue</i>
English	<i>advanced (TOEFL 100)</i>
French	<i>basic knowledge</i>