

PERSONAL INFORMATION



Federico Bosio

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Sex Male | Date of birth 21/01/1992 | Nationality Italian

WORK EXPERIENCE								
01/11/2017 - Present	Ph. D Candidate							
	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129							
	 Development of novel aluminum alloy for Additive Manufacturing (AM) Optimization of the main process parameters for new aluminum AM systems Laboratory activities: metallic 3D printing with EOS M270, material characterization Sector Applied research 							
01/03/2017 - 31/10/2017	Research Assistant							
	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129							
	 Optimization of the main process parameters of 316L stainless steel for AM Laboratory activities: metallic 3D printing DED, material characterization, porosity evaluation, mechanical tests Sector Industrial research 							
01/12/2016 - 28/02/2017	Grant holder							
	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129							
	 Development of a procedure to assess the wear amount on cemented carbide tools Laboratory activities: correlation between the tool wear and microstructural properties of cemented carbides 							
	Sector Industrial research, Mining and Tunnelling							
DUCATION AND TRAINING								
03/11/2014 – 12/10/2016	Master of Materials Engineering (2 Years)							
	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129							
	MSc Thesis: The influence of microstructure on abrasive wear resistance of selected cemented carbide grades operating as cutting tools in dry and foam conditioned soil							
25/08/2011 – 24/10/2014	Bachelor of Materials Engineering (3 Years) Politecnico di Torino, Corso Duca degli Abruzzi 21, 10129							
PERSONAL SKILLS								
Mother tongue(s)	Italian							
Other language(s)	UNDERSTANDING		SPEAKING		WRITING			
	Listening	Reading	Spoken interaction	Spoken production				



English	PO	01	01	01	C1				
English	h B2 C1 C1 C1 International English Language Testing System (IELTS)								
French	A2	A2	A1	A1	A2				
	Diplôme d'études en langue française (DELF) A2								
Communication skills	 Team working: I have worked in various research teams and I have played basketball for 7 years I have acquired the determination and strength of character that allowed me to achieve independently the fixed goals 								
Organisational / managerial skills	 I developed self-assessment and decision-making skills thanks to my research work in the academia Supervisor of groups of students 								
ů ů	 Good management of working activities and private life 								
Job-related skills	 Timeliness, accuracy and respect of the deadlines have been acquired over the years Empirical and theoretical knowledge of the Additive Manufacturing process thanks to the use of Selective Laser Melting (SLM) and Directed Energy Deposition (DED) system in Politecnico's laboratories. Optimization of process parameters of the DED system with the cooperation of Prima Industrie S.p.A Mastery of main facilities for mechanical tests and metallographic characterization of metallic alloys Experience on quality assessment of metallic alloys: metallographic preparation and porosity analysis 								
Digital skills	SELF-ASSESSMENT								
	Information processing	Communication	Content creation	Safety	Problem- solving				
	Proficient user	Independent user	Independent user	Independent user	Independent user				
Operative system	Microsoft Windows								
Text editing	Microsoft Word for writing documents, articles and bibliographies with Mendeley Desktop								
Spreadsheets	Microsoft Excel, Or	iginLab, MathLab							
Other skills	Code Blocks, Auto	CAD, SolidWorks, I	mageJ, Paint.net, P	owerPoint, Outloo	k				
ADDITIONAL INFORMATION									
Publications	 The influence of microstructure on abrasive wear resistance of selected cemented carbide grades operating as cutting tools in dry and foam conditioned soil, Nov 2017, Wear, DOI: 10.1016/j.wear.2017.11.002 A new test device for the study of metal wear in conditioned granular soil used in EPB shield tunneling, Dec 2017, Tunnelling and Underground Space Technology, DOI: 10.1016/j.tust.2017.12.014 Accelerated Process Parameter Optimization For Directed Energy Deposition Of 316L Stainless Steel, Oct 2018, Conference Paper, EURO PM 2018, Bilbao Directed energy deposition of 316L steel: effect of type of powders and gas related parameters, Oct 2018, Conference Paper, EURO PM 2018, Bilbao Laser Single Scan Tracks of New Aluminium Alloys Compositions, Oct 2018, Conference Paper, EURO PM 2018, Bilbao A time-saving and cost-effective method to process alloys by Laser Powder Bed Fusion, Jun 2019, Materials & Design, DOI:10.1016/j.matdes.2019.107949 								
Conferences	 EURO PM2018, European Powder Metallurgy Conference, Bilbao, Spain APICAM 2019, Asia-Pacific International Conference on Additive Manufacturing, Melbourne, Australia 								
Certifications	 Certificate of review for Tribology International and Journal of Testing and Evaluation (ASTM) Associate Mechanical Design (Solidworks CSWA), Licence: C-QGMGRA64BA 								