10 Bis Rue de la Marne 33130 Bègles France +33 (0)6 43 43 95 02 s.colanges@laposte.net Driving Licence

Simon COLANGES Material Chemist Engineer



Scientific Skills	Experience
 ✓ Materials science: Polymers and Surfaces sciences, Catalytic, Magnetic, Semi-conductor, Energy Material, Mechanics of Materials ✓ Chemical Sciences: Organic and Analytical sciences ✓ Structural analysis (TEM, SEM, XRD, Optical microscope) & Physico-Chemical analysis 	 2019-Present Research Engineer, LOF (Pessac), France Conception of Direct Ink Writing Platform with Gradient Abilities for Complex Fluids ✓ 3D printing (Extrusion, Stereolitography), Computer-aided design and Interfaced devices ✓ Project management and communication (several oral presentations) ✓ Co-supervised 2 master students
(HPLC, GC, GC-MS, ICP-AES, NMR, Spectrophotometer, Rheometer), Image treatment (Matlab)	HighlightsCreation of DIW platform with gradients & Focus on the role of yield stress in complex fluids. Ongoing publication: "Direct Ink Writing of a Yield- Stress Fluid: Towards 2.5D Printing"2018Engineer internship, CEA, Grenoble, France
Languages	Catalytic converter development with precious metals for automobile industry ✓ Used and optimized the MOCVD process and
French:Native languageEnglish:FluentGerman:Intermediate	device to make particle deposit2017Assistant engineer internship BOSCH, Stuttgart, Germany
Soft Skills	Development of new hard magnetic phase with transition metal and rare-earth to create cost- effective, permanent magnets using less rare-
 Teamwork, team leadership, autonomy, strong motivation, organization 	<i>earth</i> ✓ Experiment in Glove-box and Arc melting to create new alloys, and Permagraph, XRD and SEM
IT Skills	to make structural analysis2016Assistant engineer internship, IRES (Health and
Matlab:AdvancedPython:BasicsArduino:Intermediate	environment), Illkirch, France Development of water-analysis method with MS- CPG to quantify more pesticides
FreeCAD: Advanced Pack Office: Advanced Other: Mendeley, Topspin, Chemdraw	2013-2014 Lab technician in various companies, France ✓ Worked in Barry Callebaut (Agri), Toyo Inc. (Ink), Veolia (Water treatment), SGS Multilab (Environment, Agri), Ashland (CMC), SA COLOR (Dyes)
Additional Skills and Interest	Education
 Singer (team work, rigor), Improvisation actor (creativity, teamwork), Table tennis and Judo (competitor, dedicated to effort and challenge) Former President of the engineering school's board of arts: lead an 18 people team with a budget of 1000\$. Performed first meeting. 	 2015 – 2018 Diplôme d'ingénieur (Master's Degree in Chemistry) ECPM (European School of Chemistry, Polymers and Materials Science) Master's degree Engineering in Materials and Nanosciences University of Strasbourg, France 2010 – 2013 Bachelor's Degree in Organic Chemistry University of Rouen, France