

ALEKSANDRA STRZELECKA

strzel.ola@gmail.com | (949)-418-3143 | linkedin.com/in/aleksandra-strzelecka-951420165/



WORK EXPERIENCE

Graduate Research and Teaching Assistant, UCI Irvine, 10.2020 - current

- Member of Prof. Alon Gorodetsky research group

Chemist, Center of Polymer and Carbon Materials, Poland 03-09.2020

- Synthesized and designed temperature-responsive polymers and nanogels for drug delivery
- Characterized materials using FTIR, NMR, SEM, UV-Vis spectroscopy, DLS

Technologist, IZO ERG S.A. Poland, 11.2017 to 02.2019

- Optimized technological process parameters (production of laminates)
- Supervised a manufacturing process and updated work instructions
- Developed and implemented new products and changes in process parameters
- Performed research to obtain products with the desired properties (work with epoxy, phenol-formaldehyde, melamine and silicone resins)
- Gained practical knowledge about:

- Composition design-stage and preparation of epoxy, phenol, melamine and silicone resin
- Designing and supervising the process of impregnating diverse fibers with resins matrix including glass, polyester, cotton, paper and polyamide
- Designing and supervising the process of forming laminated boards based on thermosetting resins in high-pressure presses

Trainee, PPG Polifarb Cieszyn, Poland, 07-09.2017

Winner of PPG student contest "Engineer of Future".

- Performed validation of the test method
- Performed quality control of sample parameters for data analysis
- Gained practical knowledge about pigments and standard test methods for color quality in paint industry

SKILLS:

MATLAB

Microsoft Office

AutoCAD

LANGUAGES:

Polish - Native

English - Proficient

EDUCATION

Doctor of Philosophy, Chemical Engineering

University of California in Irvine, 2020 - current

Master of Science, Chemical Technology

Silesia University of Technology in Gliwice, Poland, 2017 – 2018

Thesis: Standard test methods for color quality of pigments in paint industry

Bachelor of Science, Chemical Engineering, Technology of polymers and plastics

Silesia University of Technology In Gliwice, Poland, 2013 – 2017

Thesis: Initiators in controlled radical polymerization with atom transfer