John Janda

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Highlights

- Industrial work experience as a chemical and engineering intern
- Skilled in wet-lab techniques and laboratory instrumentations
- Efficient with data analysis with programs such as Excel and LabVIEW
- Presented in poster symposiums on research done in advanced lab courses

Education

Pennsylvania State University — University Park, PA
B.S. in Chemistry — December 2014

Industrial Experience

Intern, Novasentis Inc
State College, PA — **June 2014 –December 2014**

- Performed tests on haptic actuators to obtain strain, acceleration, modulus, and viscosity of different polymer solutions and films
- Analyzed data quantitatively and qualitatively via Microsoft Excel and LabVIEW
- Designed, produced, and filtered terpolymer and copolymer solutions in a clean room environment
- Prepared UV and thermally cured acrylate-based adhesives

In Class Lab Experience

Adsorption of Oxy-Anions onto Titanium Oxide — **Spring 2014**

- Analyzed the efficiency of oxy-anions adsorption of titanium oxide using FTIR
- Prepared phosphate and sulfate samples of different concentrations and pH's

Bomb Calorimetry Research Project — **Fall 2013**

- Designed the experimental procedure and evaluated data to determine the caloric content of Hershey chocolate in a team of four
- Presented findings at a poster symposium

Relevant Course Work

- Structural Analysis
- Analytical Chemistry
- Biochemistry
- Thermodynamics
- Inorganic Chemistry
- Quantum Chemistry

Lab and Software Skills

- Fundamental Wet Lab Techniques
- Modulus
- Electro active Strain
- Acceleration
- Viscosity
- TLC
- Microsoft Office
- SolidWorks
- LabVIEW

Instrumentation Skills

- Nuclear Magnetic Resonance
- UV Spectroscopy
- FTIR Spectroscopy
- Fluorimeter