

**Erich W. Miller**  
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415 W Penn Avenue  
Robesonia PA, 19551

### **Education**

#### **Alvernia University**

Reading, PA

Studying Biochemistry: Graduation 2020. GPA: 3.83

Thesis: OCD is a chronic neuropsychiatric illness with highly complex neuro-etiology.

Significant dysfunctions in brains regions coupled with biochemical abnormalities from genetic causes lead to its development. All of these factors are currently under analysis, beginning with the biochemical basis.

Spent 15-20 hours a week conducting biochemical research on obsessive compulsive disorder

#### **Conrad Weiser Senior High School**

Robesonia, PA

Graduated with high school diploma

June, 2016

### **Experience**

#### **Superior Oxygen and Medical Equipment**

West Reading, PA

#### **ICD coding and mailroom intern**

July 2013- Present

Conducted ICD coding conversions from the ICD-9 to ICD-10 system. Assisted in operations related to patient billing and collections work. Currently the sole mailing clerk for all patients bills.

### **Leadership**

#### **Lambda Sigma Beta Mu Academic Honors Society**

Reading, PA

#### **Committee member of Board of Public Relations**

August- Present 2017

Helped in the running of the honor societies social media networks. Convened with other committees in order to shape a favorable campus image. Created flyers and media to garner support for the society.

#### **International OCD Foundation**

OCD Advocate

Registered member of the OCD advocacy program. Work is done daily to help curb the spread of misinformation, and help end the stigma surrounding this serious mental disorder. Research is being conducted to benefit the OCD community

### **Skills and Interests**

Laboratory: Neural Microelectrode Manufacture, TLC, Macro and Microscale Extraction,  
Experiment design, Research, Scientific writing  
Technical: Microsoft Excel, Word, and Powerpoint.  
Interests: OCD, Football, Pittsburgh Steelers, Modern Movies

### **Research Experience**

**Alvernia University**

Reading, PA

**Research Intern**

May-September 2017

Project: Fabrication of Neural Microelectrodes per Dowben and Rose Criteria

Synthesized neural microelectrodes as per Dowben and Rose standards for insertion and use in electrophysiological studies of frogs and mammalian subjects. Additional tasks were to operate a Leica CM4500 Cryostat, and design a Faraday cage.

**Alvernia University**

Reading, PA

**Research Principal Investigator**

January-Present 2017

Research: Principal Investigator; Erich Miller, Co-Investigator: Dr. Eric Recktenwald

Project: Review of First Line SSRI's and respective Efficacy in the Treatment of OCD

This project is currently analyzing the biochemical nature of SSRI's and the binding profiles of each in vivo. The research is designed to further the field by providing a comprehensive look at which SSRI's are the most efficacious. Empirical studies to evaluate SSRI prescription trends among OCD specialists is ongoing.