

# JOHN SLAVINSKAS

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## QUALIFICATIONS SUMMARY

- Operational knowledge of Python, TensorFlow/Keras, SQL, Java, HTML/CSS, JavaScript, PHP, Kotlin, & Swift
- Knowledge in management of teams, business and managerial law, marketing, and introductory accounting
- Well-developed chemical and biological laboratory skills through hands-on research
- Native English speaker with A2 in German
- Relevant coursework: Fiber Processing, Lignocellulosics, Green Technology, Fiber Properties, Automation

## EDUCATION

### **WorldQuant University**

January 2024- November 2025

Master of Science: *Financial Engineering*; DEAC Accredited

### **Hochschule München University of Applied Sciences, Munich, Germany**

October 2023- July 2025

Master of Engineering: *Paper Technology*; ZEvA Accredited

Thesis: *Solubility Evaluation of Technical Lignins in Organic Solvents for the Development of Lignin-Based Extract*

### **University of the People**

June 2023- June 2025

Bachelor of Science: *Computer Science*; WASC Accredited | *Concentration in Data Science*

### **State University of New York College of Environmental Science and Forestry, Syracuse, NY**

Aug 2020- Aug 2023

Bachelor of Science: *Paper Engineering*; ABET Accredited | *Minors in Management & Physics*

## RELEVANT EXPERIENCE

### **Lignopure, Technology Development Working Student | December 2024- June 2025**

- Assisted in developing lignin-based leather using an extrusion process, integrating up to 70% lignin
- Optimized material properties, achieving the highest recorded strength among the natural leather industry
- Experimented with new lignin formulations to enhance compatibility for improved bio-based leather materials

### *Master Thesis Researcher | November 2024- June 2025*

- Executed research on solvent selection and optimization such as temperature, solvent ratios, and surfactant effects to enhance dissolution of various lignin types for cosmetic applications
- Developed a method to estimate Hansen Solubility Parameters for optimal lignin solvent selection
- Evaluated changes in lignin's functional properties during the dissolution process

### *Technology Development Intern | August 2024-November 2024*

- Engaged in laboratory research on lignin processing, focusing on drying methods and their impact on lignin properties
- Contributed to the "ForFun" project, assisting in the development of functional materials from lignin
- Partnered with the University of Helsinki to conduct VOC emission testing on various lignins, identifying odor sources and developing neutralization strategies

### **Sonoco Product Co., Emerging Leader | May 2023- August 2023**

- Analyzed effluent treatment processes, leading to the identification and implementation of cost-effective solutions to enhance water treatment and environmental compliance
- Utilized Parview and Everactive sensors enabling real-time data visualization and proactive process

adjustments, leading to better quality control and reduced downtime

**Safar Partners, Intern | February 2023- April 2023**

- Conducted a competitive analysis of the biodegradable plastics industry and proposed the investment potential of the startup Radical Plastics to private equity investors
- Incorporated market research findings and polymer data into a presentation to evaluate investment potential
- Assessed the strengths and weaknesses of this company and its polymerization processes relative to its competitors in the bioplastics space including established players and other startups

**Department of Chemistry, Undergraduate Student Researcher | February 2022- February 2023**

- Synthesized biodegradable bioplastics from genetically modified E. Coli on a lab scale
- Obtained skill on using lab equipment like the gas chromatography machines, NMR, electroporator, lyophilizer, and various plastic testing equipment
- Collaborated with Envision Biopolymers to scale up and perform further research after discovering an efficient bioplastic polymer

**Paper Making Processes, Student Participant | January 2023- May 2023**

- Exhibited teamwork to determine the necessary raw materials to design specific, economical paper grades and research its properties to perform multiple scale up procedures
- Assembled and managed a detailed work plan as well as provide updates and reports
- Gained hands-on experience while working directly with process machinery and equipment

**Engineering Design, Student Participant | September 2022- December 2022**

- Contacted various vendors to obtain preliminary cost estimates to install a potential pocket conveyor system to transport waste fibers to Syracuse Fiber from WestRock rather than transporting via truck
- Created various types of maps and took various measurements at the mill when a vendor required additional information
- Calculated and presented an industry-level cost analysis to corporate managers of WestRock

**Boy Scouts of America, Eagle Scout | March 2020**

- Earned the highest rank in Scouting through leadership and service
- Planned, fundraised, and led a project to build custom helmet and bat racks for the dugouts at John Glenn High School's baseball and softball fields
- Organized teams of volunteers and managed the project from start to finish, ensuring it was completed on time and within budget

**PUBLICATIONS**

Slavinskas, John, and Donald M Andrew. 2025. "Lignin-Derived Carbon Fibres: Opportunities and Challenges". *Journal of Materials Science Research and Reviews* 8 (3):571-80.

Slavinskas, John. 2025. "Lignin Derived Chemicals and Aromatics: A Review." *ChemRxiv*. April 24, 2025. doi:10.26434/chemrxiv-2025-cprn

Dölle, Klaus, Helga Zoller-Croll, David Blazevic, Felix Hörl, Anna Lexa, Fabian Noss, Shyam Prasad, Gesa Richter, Erik Schmeckeber, Jack Slavinskas, and Matthias Weiß. 2024. "Sustainable Greeting Card – Paper Products Produced on a Laboratory Paper Machine". *Journal of Engineering Research and Reports* 26 (6):198-211.

Dölle, K., Byrnes, N., Dristle, S., Fernandez, T., Hussein, M., Krauss, C., McCarthy, B., Sausville, P., Schoen, J., Slavinskas, J., Wilson, E., & Wojcikowski, I. (2023). "Characterization of Recycled Fiber Material Made from Liquid

Containerboard (LCB) and/or Old Corrugated Containers (OCC) – Evaluation of its Use by a Handsheet Study.” *Journal of Materials Science Research and Reviews*, 6(3), 341-353.

Dölle, K., Byrnes, N., Dristle, S., Fernandez, T., Hussein, M., Krauss, C., McCarthy, B., Sausville, P., Schoen, J., Slavinskas, J., Wilson, E., & Wojcikowski, I. (2022). “Upgrading of Old Corrugated Container Board with Aseptic Packaging Container for Paper Board Applications - A Laboratory Handsheet Study.” *Journal of Materials Science Research and Reviews*, 5(4), 42-

Dölle K., Byrnes N., Dristle S., Fernandez T., Hussein M., Krauss C., McCarthy B., Sausville P., Schoen J., Slavinskas J., Wilson E., Wojcikowski I. (2022). “A Global Look at the Market Potential of Liquid Container Board and Its Ability to Reduce Plastic Waste – A Brief Review.” *Journal of Engineering Research and Reports*. 2022;23(12):223-235.

### **CERTIFICATIONS**

Strascheg Center for Entrepreneurship Incubator, *Founding Your Own Startup*

*February 2024- February 2025*

DeepLearning.AI, *Professional Certificate in TensorFlow Development*

*November 2023*

IBM, *Professional Certificate in Artificial Intelligence Engineering*

*September 2023*