Michael Stevens
Biomedical Engineer/Associate Toxicologist

Paustenbach and Associates
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Academic and Professional Profile

Michael Stevens is a Biomedical Engineer and Consultant with Paustenbach and Associates, focused on toxicology, industrial hygiene, risk assessment, and environmental engineering. His current interest is airborne chemicals and has previously worked with ingested chemicals and soil contaminants under the guidance of Dr. Dennis Paustenbach. With a B.S. in Biomedical Engineering and a minor in Chemistry from Rose-Hulman Institute of Technology, Michael uses his engineering background and technical knowledge to analyze data and problem solve effectively. His interest in consulting and human health is driven by his passion for improving the quality of life for current and future generation.

Education and Degrees Earned

- Bachelor of Science in Biomedical Engineering and Minor in Chemistry, Rose-Hulman Institute of Technology, 2022

Experience Summary (Professional Career)

Paustenbach and Associates
Biomedical Engineer
Jackson Hole, Wyoming
July 2022 – Present

- Project Manager and consultant in toxicology, consumer products, industrial hygiene, risk assessment, and safety
- Involved in litigation work, interpreting toxicological studies, and characterizing risks posed by chemicals and radionuclides in the environment
- Experience working with the following potential hazards: asbestos, silica, radionuclides, paraquat, nitrosamines, sewage, PFAs, PFIB, PFOA, heavy metals, and others
- Experience working in the following industries: steelmaking, electric vehicle, chemical plants, wastewater management, consumer products (beverage), construction, firefighting, and others
- Analysis of large data sets including identification of trends, statistical analysis, and data visualization.

Rose-Hulman Biomechanics Laboratory
Researcher
Terre Haute, Indiana
Summer 2021

- Researched carpal tunnel syndrome and wrist and thumb biomechanics
- Designed and performed several testing procedures to determine the durability of wrist and thumb splints made of 12 different thermoset plastic materials
- Developed Instron fixtures and Bluehill Universal programming
- Analyzed the collected stiffness and hysteresis data.
- Supervised by Dr. Renee Rogge and intended to be published

Paragon Medical
Biomedical Engineering Intern
Pierceton, Indiana
Spring Co-op 2020

- Designed, modeled, created drawings, and performed quality testing on fixtures that were used in the manufacturing of orthopedic medical devices and implants.
- These fixtures held the devices in place while allowing lathe, EDM, CMM, and other machines to function properly and within the smallest tolerance possible.
- Used Siemens NX CAD modeling software to do this and both 1994 and 2009 GD&T standards depending on the client.

Union Hospital Bone and Joint Center
Shadowed Orthopedist Dr Carlos Belmar
Terre Haute, Indiana
January 2020

- Shadowed the treatment and assessment of patients
- Observed steroid injections
- Interpreted MRIs, CAT scans, and X-rays in knees and hips for patients of all ages.

Professional Honors and Awards

-Samuel F. Hulbert Most Outstanding Graduate in Biomedical Engineering

-Moench Commendation faculty selected nominee for exemplary character

-John T. Royse Award faculty selected nominee based on academic achievement, student leadership, participation in extra-curricular activities, and citizenship

-Rose-Hulman's nominee for the DIII Commissioner's Association student-athlete of the year award

-Varsity R Club Award for Male Athlete with the Most Outstanding Senior Year

-Football Team Captain, Conference DPOY, Team MVP, All-American, Preseason All-American, 2X 1st Team All-Region, 2X 1st Team All-Conference, 3X Academic All-Conference, 4X Varsity letter, Conference Champion

-Rose Show Biomedical Engineering Department Award for outstanding design project

-Barry Goldwater Scholarship Nominee (1/4 Rose-Hulman students nominated for the national award)

-Phi Gamma Delta 1848 Club Outstanding Brother Award

-10-time Dean's list Honoree

-Rose-Hulman Merit Scholarship Recipient

-Carl Sandburg Athletic Booster Scholarship

-Richard F Nogal Memorial Scholarship

-PFSA Exemplary Student Award

-Scottish Rite Foundation Medical Scholarship

Membership and Service to Professional Societies

- National College Athlete Honor Society
- Pre-Medicine Society
- Phi Gamma Delta Fraternity
- SOT

Leadership Summary

- Pre-Medicine Society – President; 2021 - 2021
- Men's Lacrosse Club – President; 2019 - 2022
- Varsity Football – Team Captain; 2020 - 2021
- Phi Gamma Delta Fraternity – Head of Judicial Board 2021 - 2022, Head of Administration and Professional Development 2020-2021