Carson Minor

(951) 719-0818 | carsonbminor@gmail.com | https://www.linkedin.com/in/carson-minor/

EDUCATION

University of Utah – The John and Marcia Price College of Engineering Salt Lake City, UT
Degree: Bachelor of Science in Materials Science and Engineering May 2025
GPA: 3.42
Relevant Coursework: Nanostructured Materials, Molten Salts, Materials Innovation, and independent study of Molten Salt CNT Synthesis

SKILLS

Analytical: SEM, EDS, XRD, UV-Vis, Instron
Synthesis Methods: Solid State Synthesis, Molten Salt Synthesis, Sol-Gel Synthesis, Wire Rolling/Pulling, PLD

RELATED EXPERIENCE

University of Utah's Nanostructured Materials Research Laboratory Salt Lake City, UT
Associate Lab Manager & Research Assistant September 2021-January 2025

- Devoted 3+ years to the university's research lab focused on development of novel nanomaterial synthesis methods and applications of nanomaterials
- Promoted from Research Assistant to Associate Lab Manager by Dr. Ashutosh Tiwari in January 2024, training and leading three researchers in proficient synthesis, processing, and analysis for a federally funded advanced materials project
- Pioneered the development of a novel process for synthesizing quality copper-graphene wire, moving the idea from initial exploratory research to the consistent production of 70+ high-performance samples
- Prepared detailed presentations and quarterly reports to maintain strong partnerships and coordination with funding agencies, including DOE and DARPA
- Authored, published, and presented research on innovative materials synthesis methods

CathSecure Bench to Bedside Project Salt Lake City, UT
Engineering Director February 2024-May 2024

- Formed a multidisciplinary team to compete in Utah's leading health care innovation & entrepreneur competition sponsored by the University of Utah Health System and corporate partners
- Created a comprehensive business plan, engineering design package, and poster presentation which resulted in the team winning the $5,000 "Best in Business" award
- Led the design and prototyping of a new catheter-to-shunt connection device using 2-Photon Polymerization 3D-printing to create a precise, microscale prototype
- Protected product designs by detailing engineering drawings and authoring significant portions of a now pending patent

EXPERIENCE

Material Advantage Student Chapter Salt Lake City, UT
Chair and Vice-Chair August 2022-June 2024

- Served as Vice-Chair and Chair of an organization whose mission is to promote professional development of U of U Materials Science & Engineering students through partnerships with ACerS, AIST, ASM International, and TMS
- Increased chapter membership by 200% in one semester, using targeted outreach including email campaigns and leveraging individual connections
- Secured $1,500 in funding for chapter activities by establishing a financial partnership with Northrop Grumman
- Oversaw efforts chapter officers scoped with enhancing membership experience though professional development workshops, industry tours, and social events

ADDITIONAL INFORMATION

Interests: Nanotechnology, Entrepreneurship, Science Communication, Medical Devices, Motorcycles, Cars, and Mountain/Road Biking
Projects: Authored a 20-page analysis of the molten salt synthesis of carbon nanotubes, advised by Prof. Michael Simpson