

Nita Job

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CAREER PROFILE (OPTIONAL)

Energetic Senior Materials Science & Engineering student at University of North Texas graduating in Dec 2021. Seeking entry level position at Intel as Dry Etch Engineer to understand broader wafer processing flows, procedures, and process control systems used for device fabrication. Superb attention to detail, curious nature and strong affinity for science.

EDUCATION

<i>University of North Texas, Denton, TX</i>	Expected Dec 2021
Bachelor of Science Materials Science and Engineering ABET accredited (undergrad only)	GPA: 3.2
Study Abroad American University of Beirut, Lebanon	Jan 2017

Relevant Academic Courses (no more than 2 lines): Electronic Materials, Crystallography, Thermodynamics, Polymers, Ceramics Transport Phenomena, Optical & Magnetic Properties, Phase Transformations

TECHNICAL SKILLS (create categories according to your particular skills)

Computational Skills: ABAQUS (FEM Simulation) | Avogadro (Atomistic Modeling) | VASP (DFT Simulation) | LAMMPS (MD Simulation)

Material Characterization: SEM | XRD | DSC | OM | Raman Spectroscopy | Micro-CT | Hardness/Tensile/Compression Testing | Tribology

Material Processing: Casting | Powder Metallurgy | Alloying | Polishing | Cutting | Injection Molding | Etching | Porous Structures | Rolling

Software: Microsoft Office Suite (Excel, Outlook, PowerPoint, Word)

ENGINEERING PROJECTS

Design of Materials for Firefighting Gloves for First Responders, Senior Design Jan-Nov 2021

- Analyzed 5 sets of firefighting gloves, properties were determined, then a literature review was performed to find materials or composites that were described to have desired properties
- New glove materials will enable the wearers to save more people, land, and property, as they will give the wearer the ability to navigate more environments. The outer layer, being impermeable to liquids and abrasion resistant, will prevent toxins from getting trapped in the gloves

INTERNSHIP EXPERIENCE

ExxonMobil Research & Engineering | Houston, TX May – Aug 2019

Materials Intern (Downstream Equipment Division)

- Analyzed TAN & TRS corrosion mechanisms of various steels in refinery environment
- Gathered data on past refinery process using GENIUS software to more accurately predict material corrosion rates
- Performed risk analysis of equipment using degradation documents and corrosion rates
- Prepared and presented poster at *ExxonMobil Project Expo* & Powerpoint summary to upper level management

EMPLOYMENT EXPERIENCE

University of North Texas Material Science and Engineering Department March 2017-May 2019

Researcher (National Science Foundation (NSF) Research Experience for Undergraduates):

- Developed technique for freeze-casting Complex Concentrated Alloy foams
- Characterized samples using SEM, XRD, Micro-CT, and compression testing
- Presented at *TMS Conference 2018 in Phoenix*, received positive feedback from several company executives

PROFESSIONAL ORGANIZATIONS (OPTIONAL)

UNT Material Advantage –Vice President Jan-May 2018