
AUSTIN MARSHALL

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EDUCATION

Bachelor of Science: Biomolecular Science , Expected in 05/2020

Clarkson University - Potsdam, NY

- Minored in Biomedical Engineering
- Dean's List Spring 2019
- Continuing education in Interdisciplinary Biotechnology and Biosciences Masters Program

SKILLS

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|-----------------------------|----------------------------------|
| • Laboratory oversight | • 3D Printing |
| • Good Laboratory Practices | • AutoCAD Fluent |
| • Spectroscopy | • OSHA 10 Certification |
| • Mass Spectrometry | • OSHA 40 HAZWOPER Certification |
| • Chromatography | • Teamwork |

WORK HISTORY

Undergraduate Teaching Assistant, 08/2019 to Current

Clarkson University – Potsdam, United States

- Biology I Laboratory: Inheritance, Evolution and Diversity
- Biology II: Cellular and Molecular Biology

Undergraduate Researcher, 08/2018 to Current

Clarkson University – Potsdam, United States

BIOSEM Group

- Synthesized and analyzed nanoparticles and characterization using UV-Vis spectroscopy and Dynamic Light Scattering
- Recorded Testing Results, Data, and Presented Findings at RAPS
- Collaborated with Graduate Students to create a nanoparticle for use in 3D printable biosensors
- Production and characterization of 3D printed colorimetric biosensors

Renewable Energy Installer, 11/2015 to 08/2019

Fourth Coast Inc. – Clayton, NY

- Installed Solar systems, Geothermal systems, Backup Generators and Heat Pumps during summers and school breaks
- Worked in Commercial and Residential Settings

Mechanic's Assistant, 07/2012 to 07/2016

Chris's Service Station – Clayton, NY

- Work with certified mechanics on repairs for import and domestic vehicles

Molecular Biology Techniques

- Protein Purification and Extraction
- Plasmid Isolation, DNA Ligation, and Bacterial Transformation
- RT-qPCR, RT-PCR and Colony PCR
- Bacterial Screening and Inoculation
- RNA Extraction
- DNA Sequencing
- Gel Electrophoresis Methods

Analytical Chemistry

Hands-on Experience with the following instruments:

- Agilent UV-Vis Spectrophotometer
- Brookhaven DLS and Zeta Potential
- Perkin Elmer FTIR Spectroscopy
- Perkin Elmer HPLC-MS and FID-GC
- Cyclic Voltammetry
- Bruker H-NMR Spectroscopy
- Acquity/Waters HPLC-MS, LC-MS/MS