

Summer Andrews
Boulder, CO 80303
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EDUCATION

B.S. in Mechanical Engineering – University of Colorado, Boulder

May 2021

GPA: 3.77

PROFESSIONAL EXPERIENCE

Research Assistant

Lynch Lab, CU Boulder

May 2019 – Present

- Conducted fundamental perfusion experiments on osteocytes within a biomimetic 3D scaffold to investigate how osteocytes react to mechanical loading.
- Assisted graduate students in a project that investigates the skeletal mechanical environment and its regulation of cancer.
- Fabricated biomimetic scaffolds, which imitate the extracellular matrix (ECM), and allow for cell culture in 3D.

Support Team Member

Gen3 Technology Consulting

Feb 2020 – Aug 2020

- Wrote white paper reports on cybersecurity topics such as SSN reduction, RSA encryption, and biometrics authentication.
- Assisted in back-end hiring and administrative tasks.
- Helped automate hiring processes such as parsing resumes and tagging candidates using UiPath.

Tutor

University of Colorado, Boulder

Aug 2019 – Dec 2019

- Tutored first-year students in chemistry.
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TECHNICAL SKILLS

Software: MATLAB/Simulink, Solidworks (CSWA), C++, LabVIEW, Python, Mathematica

Machine: Drill Press, Table/Band Saw, Soldering, Lathe, Vertical Mill, 3D Printer, Laser Cutter, CNC

PROJECTS

Automated Wafer Metrology System for KLA+ – *Systems/Test Engineer* **2021**

Senior capstone project at University of Colorado, Boulder CO

Heated Hammock Design – *Project Manager* **2018**

First-year projects at University of Colorado, Boulder CO

Wheelchair Lift Design – *Project Manager* **2017**

Senior Design at Skyline High School, Longmont CO

ADDITIONAL WORK EXPERIENCE

Boulder County Parks and Open Space – *Team Leader*

June 2018 – Aug 2019

The Flower Bin – *Customer Service*

April 2017 - July 2017

Boulder County Youth Corps – *Corpsmember*

June 2014 - Aug 2016