

Samantha Russell

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Skills and Abilities

- 3+ years independent project and resource management
- 7+ years of effective public communication in educational and work settings
- 7+ years of organization skills in work and education settings
- 8+ years of competent math abilities in work and education settings

Software Program Proficiencies

- SolidWorks to create part and drawing files, .stl and .dxf files
- 3D printing software including: GrabCad, Insight, and Eiger
- Lightburn to control laser cutters
- CAM programs including UCCNC and Autodesk Fusion360
- Microsoft Interface, especially Microsoft Excel
- MATLAB programming

Education

Expected May 2024

Northern Arizona University, Flagstaff

- Bachelor of Sciences in Mechanical Engineering
- 2024 Collegiate Wind Competition Capstone Team Logistics Manager
- Lumberjack Scholarship Recipient

Current Volunteer Work

Fire Fighter, Junipine Fire Department

- Restock emergency supplies in firetrucks
- On-call to assist the community during strong weather events
- Attend Fire-Fighter trainings
- On-call for fires and events

Employment History

August 2021-Current	<i>IDEA Lab Operator and Manager, NAU College of Engineering</i> <hr/> <ul style="list-style-type: none">• Provide key advisement to Superiors for machine purchases of up to \$100k• Lead 3D printer maintenance and repair technician and operator• Point of contact for new machine training• Create essential operation documents including safety guides, maintenance schedule, and order charging guides• Manage lab resources• Manage orders from students and University staff• Advise students on possible redesigns to fit machine or cost constraints• Operate Laser Cutter, 3D Printers, and CNC Machine• Manage students and non-employees in space• Sought and received 6.9% hourly raise in August of 2022• Received 9.7% hourly raise and title upgrade in August of 2023
January 2023- Current May 2018- August 2019	<i>Cashier and Floor Associate, Old Trails True Value</i> <hr/> <ul style="list-style-type: none">• Independent transaction completion• Inventory management, upkeep, and repair• Effectively communicate between departments• Upkeep store and entrance cleanliness• Directly assist customers• Train new employees• Provide services such as chain sharpening, glass cutting, and screen repair• Received 3.5% hourly raise in June 2023
June. 2022	<i>Summer Camp Instructor, NAU College of Engineering</i> <hr/> <ul style="list-style-type: none">• Train with professionals on teaching basic programming• Create lesson plans for robotics, programming, and engineering• Design relevant activities• Instruct and inspire young students with a team
August 2021- May 2021	<i>ME180 Class Grader, NAU College of Engineering</i> <hr/> <ul style="list-style-type: none">• Communicate grading rubric each week with instructor• Complete training on FERPA law expectations• Access and grade students' submitted work• Provide feedback to students and instructor
June. 2021	<i>Summer Camp Instructor, NAU College of Engineering</i> <hr/> <ul style="list-style-type: none">• Complete training for management of minors• Create age-appropriate lesson plans for engineering• Design relevant activities• Instruct and inspire young female students with a team
References	<hr/> <hr/> <p>Constantin Ciocanel, Chair of NAU Mechanical Engineering Department</p> <ul style="list-style-type: none">• constantin.ciocanel@nau.edu <p>Perry Wood, NAU Engineering Board of Supervisors</p> <ul style="list-style-type: none">• perry.wood@nau.edu <p>Sheldon Smith, Old Trails Manager</p> <ul style="list-style-type: none">• sheldon@oldtrails66.com