

James L. Setters

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Education

Bachelor of Science in Mechanical Engineering
Minors: Mathematics, Physics, Pre Health Professional Studies
University of Idaho – Moscow, ID

Skills

<u>Design and Engineering Tools</u>	<u>Programming and Automation</u>	<u>Customer & Client Service</u>
SolidWorks	Python	Client Support
Fusion 360	HTML	Customer Service
Agtek 4D	Arduino	Communication
MATLAB	Microsoft Excel	Conflict Resolution
EES	Technical Documentation	Team Collaboration
CAD	Data Entry	Activity Planning
Drafting	System Troubleshooting	Personal Assistance
Lean Manufacturing		Daily Living Support
Product Development		Empathy & Patience
R&D		Time Management

Work Experience

Direct Support Professional (DSP)
Community Connections, Inc. – Post Falls, ID
May 2025 to Present

- Provide daily support and mentorship to adults with developmental disabilities, assisting with tasks such as meal preparation, budgeting, household management, and personal goal setting.
- Facilitate engaging recreational and social activities to encourage community involvement and enhance overall quality of life.
- Maintain a safe, supportive environment emphasizing clear communication, empathy, and independence-building skills.

Research Lab Assistant
University of Idaho – Moscow, ID
August 2024 to May 2025

- Engineered and optimized a moldless continuous casting system utilizing advanced 3D printing techniques to produce precision solid rods for research applications.
- Integrated Python-based automation, HTML interfaces, and SolidWorks designs to significantly enhance system performance, reliability, and repeatability.
- Identified and resolved complex mechanical and software issues through iterative testing, troubleshooting, and continuous design improvement.

3D Modeling Intern

RDO Equipment Co. – Billings, MT

May 2021 to May 2025

- Developed precise 3D terrain and excavation models using Agtek software to support large-scale construction projects.
- Collaborated remotely with a specialized team of 3D modelers, ensuring accuracy, consistency, and timely project completion.
- Produced clear, instructional video resources for training team members on advanced 3D modeling techniques and software usage.

Clerical Assistant/Tutor

University of Idaho – Moscow, ID

August 2024 to December 2024

- Graded assignments and provided detailed feedback for a junior-level Fluid Dynamics course in Mechanical Engineering.
- Managed course-related data entry tasks with attention to detail and efficiency.

Race Car Driver

Mike Quigley Racing – Great Falls, MT

March 2019 to October 2023

- Competed professionally in 360 sprint car racing, securing 4 championships at Electric City Speedway in Great Falls, MT.
- Managed mechanical maintenance, performance tuning, and race-day adjustments to optimize vehicle performance and reliability.
- Represented the team in public media, with multiple feature articles documenting achievements and competitive record.

Research Lab Assistant

University of Idaho – Moscow, ID

May 2023 to August 2023

- Designed, built, and tested a large-scale 3D printer to assess feasibility of constructing 3D-printed wooden housing structures.
- Developed detailed mechanical designs and simulations using SolidWorks, and manufactured custom components using manual mills, lathes, and 3D printers.
- Regularly presented design progress, engineering solutions, and project updates to a multidisciplinary research team, effectively communicating complex concepts.

Construction Laborer

Tom's Garden Beds – Athol, ID

January 2019 to April 2019

- Performed heavy lifting, site cleanup, and equipment operation on construction projects.
- Maintained high safety and quality standards while working independently with minimal supervision.

Certifications and Licenses

- Driver's License
- AED Certification (June 2025 to June 2027)
- First Aid Certification (June 2025 to June 2027)
- CPR Certification (June 2025 to June 2027)

Links

- JamesSetters.com
- frontierlabco.com

Publications

- *Lehman-Chong, A.M., Setters, J.L., McDonald, A.G., Maughan, M.R. (2025).*
"Influence of metakaolin and acetic acid on sodium silicate-based inorganic bonded wood composites for additive manufacturing."
Results in Materials, Volume 26.
<https://www.sciencedirect.com/science/article/pii/S2590048X25000536>