

Rowan Newell

Mechanical Engineering, Mechatronics, Student

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EXPERIENCE

- Chief Executive Officer** 🔗, *UWROV (Underwater Robotics)* 2023 – Present
Seattle, WA
- Lead and mentor 60+ members to design, build, and compete with an underwater robot.
 - Secure funding and serve as a professional spokesperson for UWROV.
 - Synthesize classroom knowledge and self-learning to engineer parts for final robot.
 - Under leadership, team earned first place internationally in documentation and presentation.
- Accessible Device Engineer** 🔗, *UW Husky Adapt* 2024 – 2025
Seattle, WA
- Researched and built an accessible chair for a child with stage 5 cerebral palsy alongside a team.
 - Learned and applied skills in adaptive technology design and user testing.
 - Designed, modeled, and fabricated elements of the chair using FDM additive manufacturing.
- 2023 Visions Expedition Participant** 🔗, *Oceans Observatory Initiative* 09/2023
Newport, OR
- At sea, assisted with ROV deployment and watchstanding aboard R/V Thomas G. Thompson.
 - Created an educational mini-documentary using footage from OOI and individual research.
- Math Tutor**, *Mathnasium* 2021 – 2022
Bristow, VA
- Work individually with students, communicated with parents, and ensured a clean center.

SKILLS

- Technical Writing** — Experienced communicating engineering ideas through writing, published twice. | Portfolio 🔗
- Computer-Aided Design (CAD)** — Proficient in Onshape, SolidWorks, and AutoCAD. | Experienced in creating robust, configurable documents and working with large assemblies. | Portfolio. 🔗
- Programming** — Proficient in LaTeX, MATLAB, Java, Python, FeatureScript, and C++ (Arduino). | Portfolio. 🔗
- Mechanical Prototyping** — Experienced with FDM 3D printing, rapid prototyping, stress testing, and decision matrices.
- Leadership & Management** — Experience leading large teams (60+), managing projects, and recruitment.
- Video/Audio Production** — Proficient in Final Cut Pro, Adobe Premiere Pro, and Audacity.
- Marketing and Design** — Familiar with vector and raster based editors such as Inkscape, Krita, Adobe Illustrator, and Adobe Photoshop. | Experienced communicating professionally with companies to secure funding for organizations.

EDUCATION

- B.S. in Mechanical Engineering: Mechatronics**, *University of Washington, Seattle, WA* 2022 – 2026
- Advanced Diploma, Summa Cum Laude**, *Patriot High School, Nokesville, VA* 2018 – 2022

PUBLICATIONS

- 2025 UWROV Technical Document Report 🔗, *Journal of Ocean Technology*
- 2023 UWROV Technical Document Report 🔗, *Journal of Ocean Technology*

ADDITIONAL ACTIVITIES / AWARDS

- FE Exam Passed, EIT Certification in Progress**, *NCEES* 03/26/2026
- Mary Gates Leadership Scholarship**, *UW Mary Gates Endowment for Students* 03/2025
- Harlyn and Eileen Prouty Endowed Scholarship for Engineering**, *UW College of Engineering* 09/2024
- Foreign Language and Area Studies (FLAS) Fellow for Korean**, *UW International Studies* 09/2023

LANGUAGES

- English**
Fluent
- Korean**
Intermediate