

Rowan Newell

Mechanical Engineering, Mechatronics, Student

✉ renewello4@gmail.com ☎ 619-992-2830  LinkedIn  renewell.net

EXPERIENCE

- Chief Executive Officer, UWROV (Underwater Robotics)**  2023 – Present
Seattle, WA
- Lead 60+ members to successfully 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.
- 2024 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.
- Accessible Device Engineer, UW Husky Adapt**  2024 – 2025
Seattle, WA
- Alongside a team, researched and built an accessible chair for a child with stage 5 cerebral palsy.
 - Learned and applied skills in adaptive technology design and user testing.
 - Designed, modeled, and fabricated elements of the chair using FDM additive manufacturing.
- Vice President, PTHS Seaperch (Underwater Robotics)** 2018 – 2022
Nokesville, VA
- Scheduled and ran bi-weekly meetings, as well as taught technical skills and concepts.

SKILLS

Computer-Aided Design (CAD) — Proficient in Onshape, SolidWorks, and Autodesk Inventor. | Experienced in creating robust, configurable documents and working with large assemblies. | Portfolio. 

Programming — Proficient in MATLAB, Java, Python, and FeatureScript. | Portfolio. 

Leadership & Management — Experience leading large teams (60+), managing projects, and recruitment.

Technical Writing — Experienced communicating engineering ideas through writing, published twice.

Video/Audio Production — Proficient in Final Cut Pro, Adobe Premiere Pro, and Audacity.

Marketing and Design — Experienced communicating professionally with companies to secure funding for organizations. | As freelance work, take commissions for artwork, paying attention to customer desires.

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

ADDITIONAL ACTIVITIES / AWARDS

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

PUBLICATIONS

2025 UWROV Technical Document Report, Journal of Ocean Technology 

2023 UWROV Technical Document Report, Journal of Ocean Technology 

LANGUAGES

English
Fluent

Korean
Intermediate