

WORK EXPERIENCE



ALEXANDRA PEREYASLAVETS

E n g i n e e r

PROFILE

Mechatronics Engineer with passion and dedication. Military background with interest in design, development and operational testing of electronic and biomechatronic systems, specifically wearable devices and prosthetics. Highly driven and resilient, with precision and accuracy in all projects. Experienced in personnel management, mentorship, and conflict resolution, with a natural ability to influence others.

CONTACT

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Royal New Zealand Navy – Lieutenant, Weapon Engineer Officer

Jan 2014 – current

Head of Weapon Engineering School, Nov 18 - current

Ensure the largest school both personnel-wise (up to 300 students per year) and length-wise (longest course being 16 months) keeps the Weapon Engineering Branch suitably trained and qualified. Align syllabus to operational requirements and NZQA standards.

Manage up to 20 instructors from variety of backgrounds. Ensure students' welfare, wellbeing, and domestic administration are effectively dealt with and liaise with external agencies to ensure maximum qualification achievement. Have contributed to continuous improvement, new course initiatives, and liaison with different training organisations, both within and external to the Defence Force.

Responsible for upgrading resources which includes submitting business cases and managing projects with whole of life costs less than \$1M. Current projects include modernising test equipment to reflect fleet requirements, and consolidating training aids into modular units.

Assistant Weapon Engineer Officer, Sep 14 – Nov 18

Management of department and ensuring availability of key operational capabilities; primarily communication, sensor and weapon systems. Achieved a Weapon Charge Qualification, which consisted of an eight-hour defence in front of senior officers, proving knowledge of equipment, the running of the Defence Force, and the relationships required to perform role. Oversaw training, work outputs and welfare of up to 15 personnel on lengthy deployments.

Platforms included Naval Combat Force and the Offshore Patrol Vessels which allowed exposure to mechanical and electronic systems. Multiple platforms provided a better breadth of understanding of engineering systems, operational outputs, and management styles.

Deployments:

- HMNZS TE MANA: Six-month deployment with OP RIMPAC, KAKADU and BERSAMA LIMA exercises, as well as diplomatic visits in South East Asia. Achieved Weapon Charge Qualification and successfully deputised the management of the department.
- HMNZS TE KAHA: Mid-life upgrade preparations. Ensured requirements for project were met, including the handover of each compartment on-board and all equipment. Liaised with major contractors to ensure overall cohesion and comprehension of start-up phase.
- HMNZS WELLINGTON: Resupply missions of Kermadec Islands and first of class flight trials. Achieved Harbour Watchkeeping Certificate which puts the Commanding Officer's trust in my abilities to deal with daily running of the ship and any urgent requirements.
- HMNZS OTAGO: Three-month deployment performing fisheries patrol of South Pacific Islands and a major gear-box overhaul following a misalignment.

Ancillary roles included:

- Public Relations Officer showcasing daily updates of operations and exercises. Achieved an average of five posts a week to social media, with a maximum reach of 41 thousand views.

ASPIRATIONS

I am looking to return to the fields of personal and professional interest, primarily wearable devices and prosthetics. Although the military has taught me life-long lessons and given me valuable experiences, I want to dedicate myself to my passions. As a biomechatronics engineer, I will have the opportunity to help people in the thousands through the development of assistive and rehabilitation devices.

SKILLS

- Leadership skills developed through Officer training and continuous professional development. Dynamic leadership style. Skills applied daily and recognised by supervisors.
- Teamwork developed through engineering as well as time spent in close-quarters on Naval operations. A strong believer of diversity of ideas to achieve best results.
- Time management skills, inherent in my character and cultivated through management roles.
- Communication skills with high confidence in written, one-on-one and public speaking positions.
- Fluent in Russian and conversational in German.

REFEREES

Academic, Professional and Personal referees available on request.

- Damage Control Training Officer planning fire, flood and battle damage exercises to prepare Ship's Company for any eventuality. As part of the role, wrote the winning nomination for the Lead Instructor to receive the NZDF Safety Person of the Year award.
- Liaison Officer for Singapore visit which involved planning public engagements and ensuring maximum visibility of New Zealand and Singaporean military and diplomatic engagements.
- Coordination of large-scale welfare activities including the Ship's Ball held for 200 people to mark the end of the deployment.
- Successful coordination of Pre-Refit Condition Assessment Trials proving the status of equipment prior to a mid-life upgrade.

University of Auckland – Bachelor of Engineering (Hons)

Feb 2012 – Nov 2016

Completed degree specialising in Mechatronics with First Class Honours. Main interests involved:

- Biomechatronics: Honours project successfully showcased a novel gait rehabilitation walking frame for acute stroke victims. Other projects included research and design of a mastication assistance device.
- Control Systems: Electives focused on multi-variable control and automation systems. Projects completed included a simultaneous localisation and mapping vehicle, a thermo-control chamber, and a line-following robot.

Pre-Tertiary Education and Voluntary Roles

- Ardent Education Tutor: Tutored high school students in Mathematics, Chemistry, Biology and Physics.
- Gallagher Aquatic Centre Swimming Instructor: Taught children and adults, from beginners to competent club swimmers. Included children with learning and physical disabilities.
- Women in Engineering Committee Member and Treasurer: focus was to encourage growth of women in the engineering community through organisation of events with industry, student workshops, and mentoring programs.
- International Officer O'Rorke Hall of Residence: Encouraged exposure of First Year Students to international culture by organizing International Week, running holiday celebrations relevant to different cultures, and other small events.
- Surf Life Saver: At Whangamata Beach. High level of First Aid, dedication to fitness and encouraging a healthy lifestyle.
- Volunteer for Rotaract (sub-group of Rotary International): organised fundraising events for schools in Fiji, volunteered at events, arranged sponsorships.

HOBBIES

I enjoy the outdoors and partake in hikes and trail running often. I enjoy swimming, be it at the beach or in pools. I am an avid traveller, with a passion in immersing myself in different cultures, and look forward to exploring cities, the countryside, and food specialties in as many locations as possible.

I enjoy music, and play bass guitar, guitar and piano. I was heavily involved in jazz bands and musical theatre in high school and continue to seek out performances.