# LUKA FISHTER

Resume

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## Professional Profile

Mathematics graduate and current Fort Vermilion School Division mathematics and literacy teacher with experience teaching adults at Naval Fleet School Pacific. Develops original lessons, study packages, assessments and practical learning resources, and adapts instruction for different educational backgrounds and learning needs. At the age of 23, rebuilt foundational algebra skills and completed a mathematics degree four years later. Interested in helping adults reenter education, strengthen their skills and pursue further learning through Fort Vermilion School Division Adult Upgrading.

## Experience Relevant to Adult Upgrading

- Taught adults aged 18 to 55 from across Canada, including learners who had not completed Grade 10 and many who had not used mathematics for an extended period.
- Revisited elementary mathematics and taught topics commonly encountered across Alberta high school mathematics, alongside selected introductory postsecondary material, including calculus.
- Created general and personalized study packages, instructional videos, visual explanations and activities using manipulatives; provided substantial individualized support.
- Combines experience learning online during the latter part of a Bachelor of Science with formal study of web-based teaching and development of an online learning demonstration.

## Personal Experience as an Adult Learner

Joined the Canadian Armed Forces at the age of 23 to access an education that had previously been financially unaffordable. Needed to relearn basic algebra and went on to complete a Bachelor of Science in Mathematics four years later. This experience informs a strong personal commitment to adult education and empathy for learners rebuilding familiarity with academic work. Understands personally how access to education and an opportunity to revisit foundational skills can change an educational pathway.

## Education

### Bachelor of Education After Degree Program

University of Lethbridge, Alberta | 2025-Present | In progress

Completed EDUC 4767 Web-Based Teaching in summer 2026, including online learning design, development of digital learning activities and evaluation of educational technologies.

### Bachelor of Science in Mathematics

Royal Military College of Canada, Kingston, Ontario | 2018-2021 | Degree awarded November 2021

Additional undergraduate coursework in electrical engineering. The latter part of the degree included online learning due to COVID-19.

Individual course taken at Carleton University, Ottawa, Ontario, in summer 2021: MATH 2108 Abstract Algebra I, recognized by RMC as Group Theory transfer credit.

### CMRSJ First Year of Military College

CMRSJ, Quebec | 2017-2018

Completed first-year general science degree courses in Quebec, with coursework recorded through the military anglophone component at Cégep Saint-Jean-sur-Richelieu.

### Medical Studies in English

University of Zagreb, Croatia | Coursework and examinations recorded 2011-2015 | Partially completed degree program

Completed one year of the six-year Medical Studies in English degree program.

## Adult Teaching Experience

### Mathematics and Physics Circuits Instructor

Naval Fleet School Pacific | December 2021-August 2022

Developed and delivered mathematics and physics/circuits instruction for sailors in the Marine Systems Engineering Department, including Marine Technician trade training. Learners were aged 18 to 55 and came from across Canada, with widely differing educational histories and levels of familiarity with mathematics.

### Course Development and Original Resources

- Interpreted the Navy's Qualification Standards and Plans to establish what learners needed to understand and demonstrate. Helped create many courses in-house following trades amalgamation; parts of the training had previously been delivered at Camosun College in Victoria, British Columbia.
- Worked backwards from required competencies and final assessments, identified underlying concepts, sequenced instruction and allocated time within the limits provided.
- Created most course materials from scratch, including course plans, presentation slides, diagrams, formative and summative assessments, laboratory activities and study resources.
- Developed general study packages and personalized, scaffolded packages for specific learning needs, including those of students with dyslexia.
- Created instructional videos and used visual explanations and manipulatives to provide different ways of working through mathematical concepts.

### Instruction for Adults with Varied Educational Backgrounds

- Supported adults whose previous schooling included education below Grade 10, alongside learners with more extensive academic backgrounds. Adjusted the level and pace of explanation to prior understanding.
- Helped learners refresh mathematics they had not used recently. Revisited elementary concepts and progressed through material also encountered in Alberta high school courses and selected introductory postsecondary topics, including calculus.
- Connected mathematical and physical concepts to the practical requirements of the Marine Technician trade and used laboratory activities to support application.
- Combined instructor demonstration, guided practice and independent practice. Used oral explanation, visual representation and practical work to build understanding progressively.

- Devoted substantial additional time to personalized instruction and adapted learning environments and delivery methods to individual needs.

### Assessment and Individual Support

- Used assessments and conversations to monitor understanding, identify concepts requiring further explanation and adjust instruction or practice opportunities.
- For one learner experiencing barriers, provided additional visuals, individual oral instruction after class and scribed responses in a supportive setting. The learner successfully completed the course.
- Advised the supervising officer and others on how to explain technical concepts, represent mathematical relationships and organize an appropriate progression of learning.
- Received positive feedback from Fleet School leadership and later served alongside graduates in shipboard roles requiring completion of the theory courses. The contribution helped establish teaching at the school as a recurring assignment for junior Combat Systems Engineering Officers.

## Current Teaching and Community Experience

### Teacher of Mathematics and Literacy

Fort Vermilion School Division, La Crete, Alberta | September 2026-Present

- Plan and deliver Grade 4 and combined Grade 5/6 mathematics and literacy instruction, adapting explanations and activities to students' prior knowledge and individual learning needs.
- Translate curriculum expectations into original lesson sequences, assessments, visual explanations and accessible classroom resources.
- Use classroom observations and assessment information to identify where students need further explanation, additional practice or a different instructional approach.
- Developed and piloted Super Mario Math, a browser-based mathematics game providing differentiated practice. Incorporated individualized question sets, Spanish-language support, adjustable challenge levels and dedicated addition and subtraction interfaces.
- Personally used the game with 13 students over two weeks and observed improved engagement during a challenging afternoon teaching period. Three additional teachers began using it; provided oral guidance and invited their feedback.
- Adapted access to classroom Chromebooks through Google-hosted links shared in Google Classroom, fitting the resource into established classroom routines.
- Created applied mathematics activities around money, including Counter & Cents, a restaurant money game developed with AI assistance, and a classroom market activity using student interests, a simulated budget and transaction ledgers.
- Communicate with families and school administration in a rural Mennonite community. Consider cultural and religious perspectives when selecting examples, explaining teaching approaches and responding to concerns.
- Collaborate with administration on family communication and classroom action plans addressing student needs, safety and engagement. Recommended a communication approach informed by a family's circumstances and existing relationships with school leadership.

### Teaching Experience at White Lake Colony School

White Lake Colony, Alberta | October-December 2025

- Worked with parents, elders, colony members and the religious teacher responsible for students' education, taking account of their different roles and priorities.

- Researched Hutterite history and theology to understand community perspectives and communicate educational ideas respectfully. Used dialogue, careful listening and attention to community customs in daily interactions.
- Adapted language, explanations and instructional examples to students' experiences. Used colony-built cattle waterers in science instruction and colony maps when discussing political boundaries.
- Designed and delivered a four-week English language arts novel study involving all Grades 1-9 simultaneously. Used a common text with differentiated questions, discussions and activities suited to learners across the grade range.
- Balanced community expectations with curriculum requirements and professional responsibilities. Received positive feedback from parents and developed constructive relationships across the school and wider colony community.

## Earlier Teaching and Tutoring

English Instructor | Croatian-American Society, Croatia | 2013-2015

Private Tutor | 2007-2011

Volunteer Tutor | Big Brothers Big Sisters | 2008-2011

## Online Learning and Teaching Design

### Experience as an Online Learner

Royal Military College of Canada and University of Lethbridge

- Completed online learning during the latter part of the Bachelor of Science and subsequently through an online-teaching course, bringing the perspective of a learner to the design of digital instruction.
- Completed EDUC 4767 Web-Based Teaching in summer 2026, applying course learning through original digital resources, online lesson design and evaluation of educational technologies.

### The Promethean Academy Online Learning Demonstration

University of Lethbridge | EDUC 4767 Web-Based Teaching | Summer 2026

Created a fictional online-school academic demonstration combining a public website with a functioning student learning platform. The project brought together lesson organization, learning activities, assessment and interaction within one online environment.

- Designed the content structure, page layouts, navigation and visual presentation, directing AI-assisted implementation and refining the experience through testing.
- Built a login-accessed student environment and one demonstration instructional unit organized into daily lessons, with embedded prerecorded videos, links for live Zoom sessions, learning activities and formative quizzes.
- Created an interactive whiteboard and incorporated Mr. Lukabot, an AI assistant loaded with extensive information about personal background and perspectives to recreate aspects of personality in a conversational format.
- Organized information for students, parents and teachers, including the school's educational approach, programs, assessment, support, teachers, family resources and contact information.
- Connected public information, student access, lessons, assessments and interactive tools within a consistent learning environment. Received professor feedback recognizing the project's quality and appearance approaching a professional standard.

- Developed a structured activity pairing the PhET States of Matter Basics simulation with Google Forms for exploration and formative assessment.
- Evaluated Amplify's Grade 4 Chop it module and Edpuzzle, considering visual explanations, monitoring functions and the use of questions and annotations in asynchronous video learning.

### Ethics Case Study Application and Digital Learning Activities

University of Lethbridge | EDUC 4767 Web-Based Teaching | Summer 2026

- Created a Replit application allowing users to enter ethical cases and work through prompts drawing on multiple ethical theories. Translated the intended learning activity into an interactive format using AI-assisted development.
- Tested the application's usability and corrected a mobile interaction problem to make the learning activity easier to navigate.

## Additional Original Teaching Resources

### Super Mario Math

Independent development and classroom implementation | 2026-Present

- Designed practice around three question tiers linked to game progression and rewards, with question sets connected to instructional units.
- Created addition and subtraction interfaces reflecting the standard algorithms taught in class. Refined number entry, carrying and borrowing controls to reinforce the steps in each calculation.
- Included a central teacher tracker for activity and performance, alongside adjustable challenge levels. Adapted question decks for Spanish-language support, earlier curriculum levels and more advanced work.

### Teaching Planner

Independent educational tool development | Summer 2026-Present

- Developed a web-based planning environment connecting classes, cohorts, students, courses, units, lessons, curriculum resources, calendars and assessments. Defined teacher requirements and directed successive revisions.
- Designed curriculum browsing and comparison features to support mixed-grade planning, including personal notes connected to curriculum records and searchable libraries of reusable content.
- Developed printable lesson and calendar views, student-friendly learning objectives and records of interests and learning needs relevant to planning. Integration and refinement of features across versions continue.

### Modular Tactile Number Line and Braille Labelled Resources

Independent instructional resource prototyping | 2026-Present

- Designed and assembled 3D-printed prototypes with connected rails, movable markers and Braille labels to communicate mathematical relationships through touch, position and movement.
- Assessed component fit, movement and assembly, then used observations to guide revisions. These resources remain under prototype development.

## Additional Professional Experience

### Canadian Armed Forces and Royal Canadian Navy

June 2017-March 2024 | Officer education, technical training and Combat Systems Engineering Officer experience

- During a Regulating Office assignment from June 2023 to March 2024, developed a Microsoft Forms and Excel workflow for member intake and personalized clearance documents. All coding was completed within Excel using basic Excel formulas as the programming logic. Wrote operating instructions, troubleshooting guidance and documentation for handover.
- The functioning workflow reduced estimated staff processing time from 15-30 minutes to approximately 30 seconds per member, with members entering their own information. Colleagues requested the system and supporting files for continued use.
- Coordinated a firearms safety course for Royal Military College students in 2018-2019, arranging registration, scheduling, facilities, financial matters and security requirements with instructors, the RCMP and campus authorities.

## Instructional and Technical Skills

Course and lesson planning; original resource development; formative and summative assessment; personalized study packages; visual explanations and manipulatives; instructional videos; Google Classroom, Google Forms, Zoom, PhET, Replit and Edpuzzle; Microsoft Office, Forms and Excel; Google Workspace; AI-assisted development; Python, C and Assembly. ISSA certified personal trainer. Languages: English and Croatian; French, assessed in 2021 at the BBB level (public functions test).