Michael Ritchot

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SUMMARY

Future-thinking educator and technology coach with 10 years of experience in international schools, specializing in emergent technology integration, digital learning ecosystems, and professional development. Passionate about leveraging cutting-edge tools, including Generative AI (i.e. LLMs, image generation) and VR/AR. Proven track record of implementing scalable technology solutions that improve collaboration, transparency, and institutional knowledge retention. Experienced in designing constructionist and behaviorist learning experiences, designing interdisciplinary connections, and building positive teacher-student relationships. Recognized for being on the forefront of emergent technology adaptation and leading school-wide digital transformation initiatives, designing new course offerings, expanding extracurricular programs, and providing training. Committed to technology integration, collaboration, innovation, adaptability, and staff development.

EXPERIENCE

Mathematics and Computer Science Teacher, Emergent Technology Coach

TIS Macao   **August 2020 – July 2025, Macao SAR, China**

· Taught Grade 8 – 9 Mathematics and Grade 10 – 12 Computer Science, following Alberta Ministry of Education and IB standards, achieving standardized scores 11-17% above the assessment average.
· Spearheaded the development of 13 comprehensive investigations for Grades 8 and 9, including designing task-specific assessment rubrics based on MYP Mathematics Criteria, and training on the usage of generative AI tools to assist with rubric creation. Collaborated with team members for feedback and revisions, enhancing the investigations to foster deeper student engagement and understanding.
· Developed and revised internal assessments for Grades 7 through 9 (MYP 2 through 4), including blueprint maps and mark schemes. Incorporated feedback from colleagues, ensuring these assessments aligned with MYP Mathematics command terms, IB MYP content benchmarks, and the Alberta program of studies for a thorough and standardized evaluation process. Assessments allowed for internal data tracking and informed evidence based decision making, and resulted in internal assessment scores being within 5% of external scores.
· Led professional development workshops on Google Workspace productivity strategies, Generative AI, and VR/AR, which received widely positive feedback and resulted in self-reported workload improvements and stress reduction among participants, and providing new avenues for authentic emergent technology use for learning.
· Consolidated and reorganized Secondary Mathematics resources, creating comprehensive informational documentation. This initiative enhanced both synchronous and asynchronous collaboration among teachers, improved transparency between grade levels, and provided a structured repository for resource continuity. These enhancements resulted in better internal benchmark tracking and improved retention of institutional knowledge, ultimately implemented across all of Secondary.
· Expanded a Mathematics competition program that provided further avenues for Mathematical learning, resulting in a 35% increase in participation over two years, with students earning accolades, recognition, and prizes.
· Created advertisements for the Mathematics Department's Open House Curriculum night, and initiated social media advertisement campaigns to promote Project-Based Learning activities in the Secondary Mathematics Department, increasing engagement and awareness with current and prospective families.

Sciences and Literary Studies Teacher, Technology Coordinator and Coach

Shanghai Nanyang Model Private High School (CINEC)   **August 2018 – July 2020, Shanghai, China**

· Piloted and designed courses in Grade 12 Environmental Sciences, Grade 11 Life Sciences, and Grade 10 – 11 Literary Studies, following British Columbia Ministry of Education and IB standards.
· Led the feasibility study, implementation, and staff professional development of a school-wide e-Learning platform, Schoology, which improved academic transparency, outcomes, and communication between teachers, students, parents, and other stakeholders.
· Led professional development sessions on educational technology tools to improve teaching and learning based on upcoming research and integrative reviews.

Mathematics, Computer Science, Sciences, and Physical Education Teacher

SIS Canada   **August 2016 – July 2018, Sokcho, South Korea**

· Taught and designed courses in Grade 7 – 9 Mathematics, Computer Science, Sciences, and Physical Education, following British Columbia Ministry of Education standards.
· Created and hosted a tech club to teach digital filming and video editing techniques.
· Created and hosted a student leadership committee based on promoting the school through social media outlets such as Facebook and Instagram.

Mathematics Teacher

Canadian International Academy Shanghai   **August 2015 – July 2016, Shanghai, China**

· Taught and designed courses in Grade 10 – 12 Mathematics, following Ontario Ministry of Education Curriculum standards.

Youth Facilitator

Action for Healthy Communities   June 2015 – July 2015, Edmonton, Alberta, Canada
· Assisted in activities and acted as a mentor for new immigrant and refugee youth providing programs in visual and performing arts, field trips, career exploration, life skills, outdoor/wilderness activities, and developing English language skills.

Operations Admin

TForce   September 2010 – February 2015, Edmonton, Alberta
· Developed a new cost analysis system for the Edmonton branch, which gained nationwide implementation due to its effectiveness in cost savings, ease of transference between branches, and adaptability to individual branch needs.
· Liaised between various branches and shipping companies to resolve shipping and payment disputes.
· Performed various administrative duties such as maintaining and recording audited accounts, broker invoices, payroll, and created cost analysis reports.

Office Clerk

Department of National Defence   June 2009 – August 2010, Edmonton, Alberta, Canada
· Performed a variety of duties, including implementing the National Household Removal Services contract, mediating disputes between clients and agents, preparing briefings to educate clients on their contracted rights, and entering payroll transactions.

EDUCATION

M.Ed. in Education Technology & Instructional Design

Western Governors University · Salt Lake City, UT · 2025
· Received the Excellence Award in Learning Experience Design, a distinction granted to the top 1–2% of graduate students for outstanding academic and project performance.
· Designed and evaluated an asynchronous e-learning module on language processing in large language models (LLMs), with a focus on tokenization, improving secondary student assessment scores by 28% compared to pre-assessments; derived actionable design principles using a Design-Based Research methodology to advance K–12 AI literacy instruction.

Bachelor of Education

University of Alberta · Alberta, Canada · 2015

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

Alberta Ministry of Education Professional Certificate

Alberta, Canada · 2023

British Columbia Ministry of Education Professional Certificate of Qualification

British Columbia, Canada · 2016

MYP Mathematics Category 1

International Baccalaureate Online Professional Development · 2022

Google AI Essentials

Google · 2024

Google Data Analytics Professional Certificate

Coursera/Google · 2024

Google Project Management Certificate

Coursera/Google · 2024

Google Certified Educator Level 1 and 2

Google for Education · 2024

Apple Certified Teacher

Apple · 2024

Human Subjects Research SBE Comprehensive

CITI Program · 2025