

KIERAN ROLLINS, M.ENG., P.ENG.

Infrastructure Advisory Consultant | Structural Engineer

Infrastructure Advisory Consultant and registered **Professional Engineer** with **nine years experience** in the design, management, procurement, pursuit, and execution of **multi-disciplinary infrastructure projects**. Fascinated in role of digital disruption in engineering and construction. Relish the opportunity to elevate innovative information management processes throughout project lifecycle.

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📍 Vancouver, BC, Canada

in [linkedin.com/in/kieran-rollins/](https://www.linkedin.com/in/kieran-rollins/)

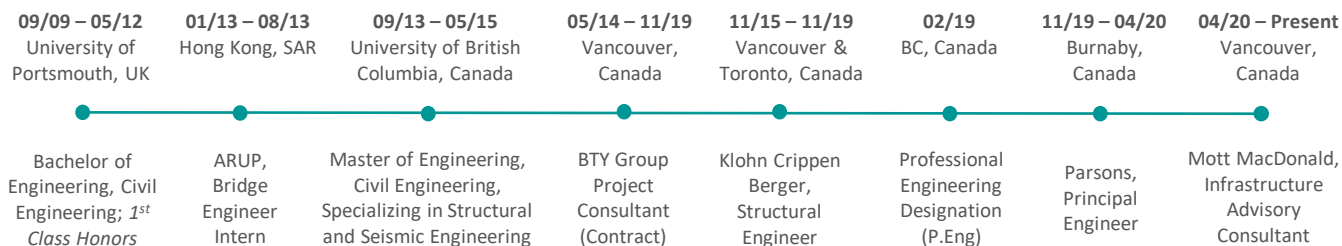
SKILLS



BEHAVIORAL (D.I.S.C. PERSONALITY ASSESSMENT)



CAREER TIMELINE



KEY PROJECT EXPERIENCE

MOTT MACDONALD – INFRASTRUCTURE ADVISORY CONSULTANT [APRIL 2020 – PRESENT. VANCOUVER, BC]

Iona Island Wastewater Treatment Plant - British Columbia, Canada

Provided delivery strategy advise and program management services for the \$10bn secondary treatment upgrades. Engineered an integrated and collaborative approach to program implementation that considered scale, schedule, and domain interface complexities. Versus traditional procurement, the delivery strategy facilitated appropriate risk transfer, schedule optimization, and a cohesive, open-book, guaranteed maximum price.

Greater Vancouver Gateway, Holdom Overpass - British Columbia, Canada

Technical manager providing procurement strategy development, project management, and technical advisory services during the project definition, procurement, and execution of this multi-span viaduct. The unique urban setting offered complicated stakeholder engagement and property negotiations with local municipalities, businesses, railways, and utility owners. Collaborated with subject matter experts to develop and implement a risk management framework and ensuring appropriate construction contingencies.

Enterprise Advisory Initiative – British Columbia, Canada

Tasked with growing Mott MacDonald's Enterprise Advisory services in Canada. Independently developed knowledge in enterprise architecture, Archi modelling, and TOGAF standards. Focused on the application of ISO 19650 (good practice information management) within existing and future projects to streamline information processes and minimize human error.

John Hart Generating Station - British Columbia, Canada

Project manager for the Senior Creditors' Technical Advisory (SCTA) mandate of the \$1bn Hydro Replacement project for InPower BC. Managed technical review and due diligence to report on project risk, schedule, and financials, as well as asset performance; ultimately, ensuring payment eligibility and a cohesive, timely completion.


PARSONS – PRINCIPAL ENGINEER [NOVEMBER 2019 – APRIL 2020. VANCOUVER, BC]


Kicking Horse Canyon Phase 4 - British Columbia, Canada


Design coordinator and structural engineer during the pursuit, for which Parsons provided fully integrated design and construction services for \$470m highway improvement Design-Build. Collaborated with other JV partners to optimize reference concept designs.

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KLOHN CRIPPEN BERGER – STRUCTURAL ENGINEER [NOVEMBER 2015 – NOVEMBER 2019. VANCOUVER, BC]

Confederation Line Extension - Ontario, Canada

Design coordinator managing subconsultants of multiple design disciplines to achieve punctual and compliant bid submissions. Review of proponent bid documents - checking for inconsistencies and ambiguities to ensure agreement of reasonable contract terms. Assessed technical and construction risk to optimize bid risk profile. Managed subconsultants to develop Bill of Quantities.

Hwy 407 East Extension - Phase 2 - Ontario, Canada.

Responsible for the overall due diligence deliverables during the bid phase for this new 30km toll highway with 32 new highway structures. Structural and resident engineer during the detailed design and construction phases. Led the onsite construction monitoring team, liaising with clients and contractors to provide prompt, resourceful conflict resolution to construction issues.

Kennedy Lake Hill Safety Improvements - British Columbia, Canada.

Project coordinator and structural engineer, working as an integrated team member to innovate unique structural solutions, collaborating with the client and stakeholders to reduce overall construction costs by approximately 15%.

Centerm Expansion Project - Vancouver, British Columbia

Marine structural engineer in the Owner's Engineer team. Reviewed design submissions to ensure contract compliance for a \$400m expansion of Centerm container terminal located at the Inner Harbor for Port Metro Vancouver.

Alex Fraser Bridge Capacity Improvement - Vancouver, British Columbia

Engineer of Record and project manager for major infrastructure improvements across BC's Lower Mainland. Reviewed shop drawings, responded to RFI's, and ensured as-built compliance with contract.

BTY – PROJECT CONSULTANT [MAY 2014 – NOVEMBER 2019. VANCOUVER, BC]

Provided Lenders' Technical Advisory (LTA) services for multiple P3 projects across Canada and the U.S (SH-288 Toll Road, Pennsylvania Rapid Bridge Replacement, Purple Line Light Rail Transit, Makenzie Alley Fiber Link, Champlain Bridge, Highway 407 East Extension Phase II). As LTA, primary reporting functions included;

- Assuring that the risk management and mitigation strategies employed by the private sector partner were reasonable.
- Assessing technical and construction risk by performing design, schedule, and cost reviews.
- Editing lenders' Pre-Bid Technical Advisor Report and facilitating discussions with lenders, advising on contractor's capabilities, and the appropriateness of risk transfer and distribution.
- Leveraging legacy project information and existing asset information to develop a comprehensive cost comparison database which compiled every P3 project BTY had worked. This enabled verification of the contractor's estimate and identified areas to improve cost competitiveness.

ARUP – BRIDGE/STRUCTURAL INTERN [JANUARY 2013 – JULY 2013. HONG KONG]

Brunei to Temburong Bridge Link - Brunei

Valuable international project experience in both preliminary and detailed design with an array of cross-discipline design challenges. Undertook detailed analysis of structural engineering problems to develop executable drawings packages.

ACTIVITIES AND INTERESTS

Enjoy anything active and social. Passionate about travelling, experiencing different cultures, and meeting new people. Enjoy broadening knowledge with online resources such as Coursera and Udemy.

ADDITIONAL EDUCATION

- ENCON - Managing Risk Through Written Contracts, November 2018
- Enterprise Architecture – Coursera / St. Petersburg Polytechnic University, November 2020
- Driving Business towards SDGs – Coursera / Erasmus University Rotterdam, November 2020
- Zero to Mastery Web Development, March 2022