

Wireless Communications

YRH

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About YRH Inc.

Founded in 1967, YRH is an engineering consulting firm specialized in telecommunications, offering comprehensive expertise in wireless communications, fiber optics, FTTH, intelligent transportation systems, and tower and structural engineering for telecommunications and building infrastructure.

YRH operates as an independent firm both across Canada and internationally and is particularly recognized in the field of telecommunications for critical infrastructure requiring robust and high-performance systems. The firm provides comprehensive engineering expertise in telecommunications and related infrastructure. Its services include planning, studies and audits, design, project management, testing, measurements, inspections and surveys, structural analysis, construction supervision, and training, ensuring innovative technical solutions tailored to its clients' needs.

ISO 9001:2015 certified, the company prioritizes a human-centered and ethical approach, fostering long-term relationships with telecom operators, governments, electric utilities, transportation agencies, public safety organizations, and entities requiring critical infrastructure. Headquartered in Canada, YRH has nearly 100 employees and partners across the country.

Wireless Communications

As fixed and mobile communications systems are found everywhere and are becoming increasingly complex to manage over time, our experts are here to advise and guide you.

YRH has been providing cutting edge services for hundreds of clients in Canada and across the world. YRH is here to plan, analyze, optimize, and design for the following technologies: microwave transmission, IoT, LoRa, DMR, P25, TETRA, Wi-Fi, 4G/5G, LTE, LTE+, LTE-P, 5G-NR, smallcells.

To learn more about YRH, visit www.yrh.com



Our Services

Wireless Network Design

Project management
Analysis and identification of marginal coverage areas
Capex/Opex analysis
Preliminary technical analysis
Cellular and transmission network design (4G-LTE, 5G-NR)
Mobile radio network planning and design
Optimization of site positioning
Service quality verification
Support to the site acquisition team
Participation in public consultations
Antenna array systems
Training

Microwave Link Planning and Design

Project management
Site/Link surveys and audit
Microwave link planning and design
Frequency selection and interference calculation
ISED application preparation and submission
Training and measurement

Safety Code 6

NIR measurement survey
NIR contribution breakdown by specific operator
Customized Code 6 training
Predesign assessments
Redesign solutions
Mitigation solutions
Post construction validation
Rooftop antenna management
Safety Code 6 (NIR issues)

In-Building Design – DAS and Wi-Fi

Project management
Surveys
Design (carrier-neutral DAS solution, passive or active system)
Cost estimates for an efficient design
Post construction validation
Frequency sweep, PIM test

Technical and Site Management Services

Project management
Interference studies
RF compatibility
Drive-testing and walk-testing
Network dimensioning and optimization
RF work orders and scope of work
Training

RF Simulation Softwares

Infovista Planet
Pathloss
EMF Visual
iBwave Design
Ekahau

