



Contact

KHuber@diact.ca

587-438-7557

Academic Background

B.Sc., EEng, Bachelor of Applied
Science Degree in Electrical
Engineering, University of Windsor
1991

Kenneth J. Huber, P.Eng., SIEEE, CFEI

Practice Lead, Electrical/Electro-Mechanical

Mr. Ken J. Huber has over 30 years of extensive experience in electrical and mechanical engineering specializing in electrical rotating equipment, automation, transformers, power products, starting systems, design, manufacturing, investigation, project management, project engineering, factory inspections and FAT/certifications. Mr. Huber is skilled in driving business development, maintaining client relationships, and optimizing channels and processes. He provides consistent, high-quality engineering services through innovative designs and experience. He crafts personal, bespoke services, leading to cost and time saving solutions for his clients.

Primary Areas of Consulting

FORENSIC ANALYSIS & LABORATORY TESTING

- Failure Analysis
- Root Cause Analysis
- Warranty Investigation
- On-Site Investigations
- Analysis

ROTATING ELECTRO-MECHANICAL EQUIPMENT

- VFDs
- ASDs
- Drives
- AVRs
- Controls

AUTOMATION

- Slip and fall
- Glass doors and windows
- Aluminum Ladders

TRANSFORMERS

- Power Transformers
- Substations

AUTOMOTIVE

- Electric Vehicles
- Battery
- Fuel Cell
- Traction Motors
- Testing and Manufacturing

FORENSIC ENGINEERING TESTING LAB

- Factory Inspections
- Site Supervision
- Commissioning
- Testing Supervision



Professional Licensure

Professional Engineer – SK - Assoc. of Professional Engineers & Geoscientists of Saskatchewan (APEGS)

2024 to Present

Certified Fire & Explosion Inspector (CFEI)

2023 - Present

Professional Engineers & Geoscientists of Newfoundland & Labrador (PENGNL)

2022 to Present

Professional Engineers & Geoscientists of British Columbia

2022 to Present

Professional Engineer – AB - Association of Professional Engineers, Geoscientists of Alberta (APEGA)

1999 to Present

Professional Engineers Ontario (PEO)

1998 to Present

- Laboratory investigations Origin and Cause
- Certifications and Performance Testing
- Custom Electrical and Mechanical Testing
- FAT Factory Acceptance Testing

MANUFACTURING SYSTEMS

- Fabrication
- Industrial Engineering
- Quality Control
- Efficiency
- Operations

INDUSTRIAL ELECTRICAL EQUIPMENT

- Switchgear
- Controls
- DCS
- Process
- Power
- Transmission and Distribution

OIL AND GAS

- Drilling Onshore/Offshore
- Refineries
- Pipelines
- LNG
- Gas Plants
- Oil Sands

MINING AND METAL

- Open Pit
- Potash
- Coal
- Aluminum
- Bauxite
- Rolling Mill

PULP AND PAPER

- Refinery
- TMP
- Forestry
- OSB

POWER AND ENERGY

- Power plants
- Synchronous Generators



- Solar
- Wind Turbine
- Backup Emergency Power
- Multi Power Grid Systems

MEDICAL

- Electrical Medical Equipment

PROJECT MANAGEMENT

- Large Electrical and Mechanical Project Integration

INTEGRATION

- Design and Integration of Large-Scale Electrical Power Projects
- Design
- Sourcing
- Manufacturing
- Installation

Certifications & Courses

- Certified Fire & Explosion Inspector (CFEI)
- Canadian Association of Fire Investigators Member
- Haag Certified Inspector, Residential Roofs - HCI-R Course
- Senior Member- SIEEE, Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- APEGA Engineering Mentor, Formal Mentor Program
- APEGA Engineering Mentor Award
- Chairman of Board (Director) MWWC
- Global Machines Task Force Team WEG
- Management and Conflict Training
- Gustav Käser International Management Training
- Advanced Team Selling and Presentation Training
- ABB Synchronous/Asynchronous Machines Training, Finland, Sweden, Switzerland
- ABB Large Synchronous Generator Training, Finland, Sweden
- ABB Medium Voltage Variable Frequency Drive Technical, Finland
- ABB Synchronous Machines, Operation and Maintenance, Sweden
- ABB Master Drive Controller
- ABB Variable Frequency Drive Technical
- Search and Rescue Scuba Diver Certification
- C.P.R. / Emergency Industrial First Aid / WHMIS / H2S Alive
- Numerous plant safety certifications for above and below ground factories, facilities, and mine sites
- Wilderness Rescue - Avalanche Rescue, Mountaineering
- Advanced Race Driving I and II, Race City
- Dual citizenship of Switzerland and Canada



Employment Background

Diact Inc

Practice Lead - Electrical/Mechanical

2024 to Present

- Founded and leads the Electrical/Electro-Mechanical division.

Haag Canada, Calgary, AB

Director Forensic Engineering and Forensic Laboratory

Practice Lead - Electrical/Mechanical

2021 to 2024

- Leading and coordinating a multi-disciplinary team of forensic engineering experts. Responsible for conducting structural investigations and assessments performed for the insurance and legal industries, and other consulting companies.

Practice Lead - Electrical/Mechanical Group

2021 to 2023

- Responsible for conducting electrical, mechanical and electro-mechanical investigations for forensic engineering matters.
- Investigations, assessments, and reports for the insurance, legal, and engineering consulting industries.

HUBERWERKS Services Ltd., Calgary, AB

President/Chief Engineer

2016 to 2021

- Over 30 years of experience in electrical and mechanical engineering, rotating equipment engineering, design, manufacturing and diagnostics. Providing consistent high-quality, cost-effective engineering services through innovative designs and experience. Personal customer specific service leading to cost saving solutions.
- Electrical Engineering - motors, machines, asynchronous, synchronous, AC and DC Generators, SR, PM, Wound Rotor, DC, Automation LV VFDs, MV VFDs, Soft Starters, Starters, Transformers, Switchgear, Transmission, Instrumentation
- Project Management Services. O&G, Mining, Transmission, Plant Design and Maintenance. Plant on-site evaluations; preventative maintenance, upgrades, failure review and corrective action.
- System Evaluation and Design. Equipment design, sizing and sourcing. Factory Witness Testing. On-site Service Supervision. Factory Evaluation and Supplier Certification. Warranty supervision and guidance. Have the right support on your side during the warranty evaluation process.
- Remod - Rotating Equipment Management On-Demand - Priority on site or remote expertise and support. Preventative Maintenance, site evaluation, expansions, de-bottlenecking and upgrades. Assistance in FAULT ANALYSIS, warranty evaluation.
- Extensive experience in manufacturing process from design to completion; de-bottlenecking, streamlining, reduction of losses, efficiency studies, ISO14001/ISO9001.



WEG Canada, Calgary, AB, Canada

Vice President – Large Machines and Projects

2002 to 2016

- On-site and remote analysis, root cause investigations
- Numerous factory customer testing and inspections
- Production and system design re-engineering, streamlining, and de-bottlenecking
- A multi role position from Operations in Western Canada to Engineering Design support and guidance across Canada.
- Manage operations of western Canada for all products, manufacturing process and streamlining, account managers, sales representation, inside sales, technical support, administration, marketing, and warehouse.
- Responsible for machines and projects divisions sales and marketing across Canada.
- Employee performance reviews, budgets, negotiate annual and product pricing with factories, contract reviews, financial risks, terms and conditions.
- Designed and launched over 75 new products on factories (i.e. crushers, miners, drilling machines, modular 600V VFD).
- Member of manufacturing team to start new product manufacturing lines and plants overseas.
- Involved in CSA, ISO IEC ATEX certifications at new manufacturing lines and plants.
- Negotiate annual agreements and customer contracts. Responsible for conflict resolutions internal/external.
- Project management of key accounts, oversee sales, engineering, western expansion. Business Development.
- Launched new business structure from a small motor company in 2002 to present day machines, generators, Large Motors, Automation products and Power Transformers from 25 factories worldwide.
- Expanded market penetration into Potash industry from 0% to 75% market share in machines within 5 years.
- Responsible for operational result of Western Canada.

ABB Automation Power Products, Calgary, AB, Canada

Sales and Marketing Manager

1998 to 2002

- Established and launched power products penetration into the following application industries into western Canada; Pulp and Paper, Mining and Metals, Chemical Oil and Gas and General Industry.
- Market wide responsibility for Machines/Motors/Generators; Marketing plan, Development of objectives and strategy, Sales account coverage and budget, Authorized Distributors, Warranty and Service Shops.
- Part of Global Manufacturing-Engineering Design Team to develop new products and manufacturing processes to match global requirements.
- Managed weekly operations meetings, monthly department reviews and quarterly corporate reviews.
- Established standard products distribution base across western Canada.
- Successfully signed large contracts and agreements for Oil Sands, Mining and Pipeline Projects.



ABB Industry, Milton, ON / Helsinki, Finland

Project Manager

1995 to 1998

- Canada wide product responsibility for Synchronous/Asynchronous A.C. Motors/Generators, D.C. Motors and Large M.V. Drives; Technical Product Support, Development of objectives and strategy, Sales coverage, Service and Warranty issues. Dimensioned motors and drives through use of technical design software tools. Actively represented products with direct customer and distributor presentations and site visits as well as support and education of internal sales force through specialized product training programs. Daily contact with manufacturing facilities, customers, and consultants for both Domestic and Export projects. Represented product and market during local and international conferences and new product launches.
- In 1996-1997, intensive training and manufacturing work in Production plants in Finland, Sweden, Denmark, Italy, Germany and Switzerland, specializing in technical design, manufacturing process, components, and sales and marketing of motors/generators and large drives. On assignment with ABB Finland in engineering and marketing department during 1997.

ABB Industry, Toronto, ON, Canada

Project Manager

1993 to 1995

- Managed and coordinated electrical engineering projects specializing in A.C and D.C. motors with required controls, switchgear and starting equipment; including integrated solution projects. Responsible for all project costs, purchasing, budgets, contracts and scheduling between customers, consultants and suppliers, international and domestic: reduced total project costs through innovative negotiation and management of contracts. Organized and managed project teams of engineering, production, shipping, commissioning and service. Responsible for the financial results of projects and ultimate satisfaction of both customer and company.

PowerServ Pacific / ABB / BC Hydro, Surrey, BC, Canada

Project Engineer

1993

- Numerous equipment and facility inspections and analysis
- Electrical, mechanical, and environmental studies
- Performed environmental audit on ABB/B.C. Hydro Joint Venture operations. Defined and implemented project improvements meeting environmental standards and improving plant efficiency. Supervised and implemented contracts and tenders for Transformer PCB Contaminated Oil Processing Plant and Electric Repair Shop.



ABB Drives, Mannheim, Germany

Electrical Design Engineer

1992

- Developed and designed automation program to dimension complete Rolling Mill Projects: involved sizing, pricing SAMI inverters and asynchronous motors for large scale R M P quotations, engineering, commissioning; acquired and applied knowledge of calculations and theories for dimensioning A.C. inverters, motors, Flat Rolling Mill Process.
- Working with local and overseas metal manufacturing plants to custom design software for improving existing plants to manufacturing new facilities.
- Factory and facility inspections and advancements

ABB Power Transformer, Guelph, ON, Canada

Marketing Engineer

1991 to 1992

- Extensively involved with processes and application of tendering activities. Commissioned power transformers on customer site; responsible for mechanical, electrical hookup and assembly. Worked on manufacturing process de-bottlenecking and resource management of power transformer production. Reduced material usage and waste through JIT, SPC and Production Management.

ABB Industry, St-Laurent, PQ. Canada

Electrical Engineer

1991

- Selected for EDP at ABB (ABB Engineer Development Program)
- Trained in Master Maintenance and VFDs assembly plant and test facility. Certified, programmed and tested A.C. Drives and controllers as test engineer.

Chrysler, Windsor, ON, Canada

Process / Quality Control Engineer

1988 to 1990

- Electrical Design Engineering, Quality Control, Process Control, Line Supervisor, Electrical Engineering, New Product Launch Team, Quality performance roles at various Chrysler Final Assembly Plants as TFT and TPT.
- Setting up SPC and process monitoring of assembly lines, rework stations at main assembly plants and sub supplied components from additional Chrysler facilities and third-party suppliers.

**Project history available upon request.*