

Daniel R. Robles, PE
Edmonds WA, 98026
(425) 361-8499

SUMMARY

Daniel Robles, PE, MBA is the founder of CoEngineers, PLLC, where he leverages extensive aerospace and construction industry experience to provide expert witness services for the legal, insurance, real estate, government, and financial industries.

Recent cases involved contractor error, material failures, chemical incompatibility, building envelope failures, water intrusion, personal injury, product failures, plumbing system failures, industrial machinery failures, corrosion, fire, forensics, standard of care, feasibility studies, facility condition assessments.

Mr. Robles has held leadership roles business processes, design, construction, and test engineering for high-profile projects including the NASA Space Shuttle, commercial satellite deployment, military aircraft, and commercial aircraft commissioning and aircraft maintenance.

In addition, Daniel Robles is an early proponent, researcher, and innovator of digital infrastructure, blockchain technology and artificial intelligence as they pertain to the engineering profession. His award winning innovations have been recognized by NSPE, ASME, ASCE, NAE and featured in industry media.

EDUCATION

- Masters in International Business (MBA); Seattle University. Seattle WA, 2002.
- Bachelor of Science Mechanical Engineering, (BSME); University of New Haven, 1985

Certifications:

- Licensed Professional Engineer; California #30667, Washington #44394
- MIT Professional Education; AI and Machine Learning, 2024

PROFESSIONAL EXPERIENCE

2008 – Present: Community Engineering Services PLLC. Founder / Owner, Edmonds, WA.

- Expert witness (plaintiff and defense) for plumbing product failures, mechanical failures, contractor failures, private party disputes, contractor standard of care, insurance claims.
- PEX, Aquatherm™, Polypropylene pipe. Epoxy Pipe Liner, galvanized steel, copper, CPVC, cast and ductile iron failures.
- Mechanism failures, industrial machinery failures, personal injury cases.
- Serving legal, insurance, HOAs, condominium boards, government and financial industries.
- Resolution of unique building problems including piping issues, building envelope problems, water intrusion, mold, HVAC, and mechanical systems.
- Re-piping high rise, mid-rise, and low-rise structures
- Feasibility studies for agricultural meat production facilities.
- Prototype design for closed-containment mariculture system.
- Maintenance planning, financial reserves analysis, construction management (RFI/RFP/RFQ)
- Facility condition assessments per ANSI E2018-08.
- Artificial intelligence, machine learning, prompting engineering, AI research.

2008 – Present Various Startups:

Integrated Engineering Blockchain Consortium, The Ingéniesist Project (ingeniesist.com), Boomspace (boomspace.ai)

- Novel application of blockchain, game theory, and artificial Intelligence to engineering

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- Founded The Integrated Engineering Blockchain Consortium (venture funded)
- Pioneering “Engineer-in-the-loop” for artificial intelligence in the built environment
- Decentralization, and hyperconnectivity of STEM professions.
- Economic measurement of intangible assets.
- Knowledge network valuation and articulation.
- Creator: The WIKiD Tools Algorithm, The Value Game, Curiosumé, Game of Zero,
- Creator: The Innovation Bank: A Novel Method of Business Related to the Integration and Capitalization of Knowledge Assets

09/2009 – 06/2012 Co-founder, Chief Innovation Officer: Social Flights, LLC, Smyrna, TN a ride sharing service for private jets.

- Pioneer in collaborative enterprise, network platforms and shared asset commerce (pre-Uber).
- Statistical yield modeling and route probabilities.
- Airport availability, aircraft performance, and passenger/crew demographic analysis
- Acquired by Avianis, Inc

2006-2010: City University of Seattle, WA.

- Adjunct Faculty Instructor of International Business / International Management.
- Experienced in classroom, on-line, hybrid, and international education delivery.
- Curriculum development

11/2004-01/2008: Account Manager, Airline Support; The Boeing Company, Everett, WA

- Airline service manager
- Front-line critical team leadership toward resolution of complex in-service aircraft issues.
- Represented All Nippon Airways (ANA); responsible for 124 widebody aircraft fleet
- Additional international airline customers include Air Uzbekistan, Saudia and Aeroflot.
- Resolved issues in all aircraft systems; reliability, operations, certification.
- Dispute resolution; vertical (corporate) and horizontal (flightline) escalation.

01/1997-01/2002 Account Manager, Customer Engineering; The Boeing Company.

- Front-line critical team leadership for the commissioning, certification, delivery of aircraft
- New aircraft configuration and specifications support.
- Delivered (24) B777-200 aircraft into service with a combined value of 7 billion dollars
- Represented airline customer for system test, operations, and test flights
- Resolution of disputed performance or variance in client expectations.
- Contract development, specification development, transfer of ownership

1994-1997 Director of International Projects, Baja California, MX; CETYS University

- Adjunct faculty and comparative education researcher
- Prepared over 250 Mexican engineers to EIT/PE engineering board exams.
- Economic development consultant to Baja California State Government
- Consultant to academia and industry implementing the NAFTA Mutual Recognition Document (MRD) for international mobility of engineering professionals.

1993-1994 Project Manager, Hollywood entertainment industry: mechanical / animatronic effects for Hollywood film, commercial, and theme park industry.

- Jaws II theme park water ride – Universal Studios

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- TMNT motion picture – animatronic head gear
- Practical computers (working props); commercials, television series, and motion picture projects

1989-1993 Senior Test Engineer Rockwell International, Space Transportations Systems Division, Downey, CA: Space Shuttle Endeavor and orbiter modernization program / upgrades.

- Drag parachute retrofit and operation tests: mechanical, thermal, acoustic, vibrations, structural
- Space Shuttle ABS carbon brakes; full-scale dynamic simulation of landing gear operation.
- Extended orbiter pallet tests; installation of life support systems for extended shuttle missions
- Hydrogen leak anomaly tests; hydrogen leak detection and resolution in main engine chamber
- Thermal tile moisture absorption control; detection and mitigation tests
- Shuttle to 747 carrier support bearings.

1987-1989 Design Engineer III, Hughes Aircraft, Space and Communications Systems Division, El Segundo, CA. Precision mechanisms design for the horizontal deployment of the MMB II satellite system from the Space Shuttle orbiting vehicle.

- Layout of cradle supporting horizontal satellite in orbiter cargo bay
- Integration of satellite ejection system between orbiter, cradle and cargo.
- Snubbing device for supporting loose components for re-entry

1985-1987 Design Engineer, Northrop Corporation. Advanced Systems Division, Pico Rivera, CA
B-2 Spirit Strategic Bomber. Design and development of tooling for complex carbon fiber aircraft structures. Top Secret Clearance.

- Leading edge removal and repair tooling
- Engine bay fire shroud removal and repair tooling
- Stealth mode rigging and calibration tooling
- Other classified applications

Orange Research Corporation, Orange CT; design of variable area fluid flow and pressure gauges. Flow restrictor devices for aerospace hydraulic applications. **Electrostatic Technology Systems Incorporated, New Haven, CT:** Design of electrostatic coating machinery, heat transfer and forced air convection cooling. **RMS engineering Corp. New Milford, CT** machinist, manufacturing

Volunteer and Non-Profit:

2014 – 2020: City of Edmonds Planning Commission (Chairman 2020)
2015: Leader FinTech Task Force; National Society of Professional Engineers
2012: Rotary International Paul Harris Fellow
2012: Toastmaster International; regional speech competition winner