

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

SUMMARY: Licensed mechanical engineer, business owner, and educator. Speaker, author, and researcher in engineering, finance, insurance, and technology fields. International engineering, project management and team leadership. Customer service experience related to high value machinery. Design and test engineering of precision mechanisms and mechanical systems for aircraft and spacecraft.

- **Mechanical Engineer:** Experienced in manufacturing, construction, building sciences, product development, machine design, precision mechanisms design, tooling, mechanical testing, inspections, technical sales, aircraft certification, validation, engineering test and design integration. Forensics and expert witness in plumbing, HVAC and mechanical systems.
- **Project Management in Diverse Industries:** Managed projects in construction, engineering education, start-ups, aviation certification, financial reserves analysis, building envelope, environmental control systems and installations. Property Condition Assessments per ASTM E2018. Experience in potable water system renewal projects, thermal insulation, vapor barriers, sound attenuation, waterproofing systems for building construction and aircraft manufacturing.
- **Business and communications:** Founder of CoEngineers, PLLC. Developed novel business methods specific to decentralization of engineering, knowledge asset allocation and Blockchain Technology. Notable blogger and author, keynote speaker, moderator, and panelist at local, regional, and international conferences. Website development, video production and editing.
- **Projects include:** New and historic building renovations, structures, re-piping, and waterproofing. Feasibility studies for life sciences institutions (U of Idaho), development of International EngTech sector. Instrumental in NAFTA implementation of mutual recognition of cross-border engineering practice. Aircraft programs include B2, B777, Space Shuttle Program MMB-2 Satellite system, etc.
- **International Account Management:** Mexico, Japan, Russia, CIS, UAE, Saudi Arabia, and Uzbekistan. Large aircraft commissioning and service engineering account management.

EDUCATION

- Masters in International Business; Seattle University. Seattle WA, 2002.
- Bachelor of Science Mechanical Engineering, (BSME); University of New Haven, 1985
- Licensed Professional Engineer, Mechanical Engineering; CA #30667, WA #44394

PROFESSIONAL EXPERIENCE

2009 – Present: [Community Engineering Services PLLC](#). **Founder / Owner:** Serving condominium communities, private owners, public institutions in resolving unique building problems including piping issues, envelope problems, water intrusion, and mechanical systems. Expert witness for plumbing product failures. Services include maintenance planning, financial reserves analysis, feasibility studies, project scope, SOW, construction management (RFI/RFP/RFQ) and building inspections per ANSI E2018-08. This leadership role requires strong element of public service, professional collaboration, customer interaction, and representation of diverse communities of people in the successful resolution of sensitive building problems.

1996– Present: **Founder** [The Ingenuisist Project](#): Research, applications and publications associated with the advancement of a global engineering profession, decentralization of STEM professions, and measurement of intangible assets. Developers of The Innovation Bank – A parallel economic system based on game theory, blockchain technology, and actuarial math. Founder of related start-ups including Social Flights (acquired), CoEngineers.io, the Integrated Engineering Blockchain Consortium, and the Innovation Bank. **Director of International Projects;** CETYS University; comparative education research (n=250) programs related to the NAFTA Mutual Recognition Document for International Mobility of Engineering Professionals between the US and Mexico. Published seminal whitepaper on US/Mexico economic development, global sustainability, NSPE blockchain position paper, ASME, ASCE, IEEE and more.

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09/2009 – 06/2012 Co-founder, Chief Innovation Officer: Social Flights, LLC, a ride sharing service for private jets based on Social Media tools deployed to form organization around a shared asset – high value proof of concept for any community sharing knowledge assets. Pioneer in collaborative enterprise. Acquired by Avianis, Inc

2006-2010: Adjunct Faculty, City University of Seattle. International Business, International Management. Experienced in classroom, on-line, hybrid, and international education delivery.

11/2004-01/2008: Airline Support Account Manager; The Boeing Company; Performed critical internal team leadership toward resolution of complex in-service aircraft and airline issues for multiple international customers. Mechanical systems, propulsion, flight control systems, corrosion, and high-cycle fatigue cracking.

01/1997–01/2002 Customer Engineer, Account Manager; The Boeing Company Commissioning Agent for large aircraft representing United Airlines acquisition of Boeing 777-200 aircraft. Provided critical team leadership for the commissioning, certification, contracts, and delivery of (24) aircraft with a combined value of more than \$3.2 billion.

04/1985-01/1997:

Hollywood Entertainment Industries: Designed and managed performance of mechanical special effects, animatronics, self-retracting mechanical structures for motion pictures, commercials and theme park rides. Musician and event production.

Responsible Test Engineer Rockwell International for Space Shuttle fleet upgrades, hydrogen leak tests, ABS carbon brake tests, drag parachute deployment, titanium aluminide structural tests. **Responsible Design Engineer Hughes aircraft** Precision Mechanisms design for satellite deployment system. **Design Engineer Northrop Corporation** Carbon fiber aircraft structures design, test, maintenance, and repairs. **Design:** CAD systems, geometric tolerances, FEA, and CFD on assorted platforms. **Orange Research Corporation;** design of compressible and non-compressible fluid pressure, flow gauges, and flow restrictor devices

Volunteer (recent):

- City of Edmonds Washington Planning Board 2014-2021 (Chairman 2020)
- DHHS Foster Parent
- South Everett-Mukilteo Rotary Club (2002-2007). Paul Harris Fellow
- National Society of Professional Engineers – FinTech Task Force Leader (2016-2017)
- Sports photography, FC Edmonds, BV BIA Soccer

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Publications:

Robles, D. R. and Layton, B. E. 2020; "[The Innovation Bank; Decentralization of the Engineering and STEM professions](#)" ASME; **International Mechanical Engineering Conference and Exhibition**: Juried paper and presentation:

Robles, D. R., and Layton, B. E., 2020, "CoEngineers," <https://www.coengineers.com>

Robles, D., 2007, "Innovation Bank: A Novel Method of Business Related to the Integration and Capitalization of Knowledge Assets," USPTO, US20070226163A1.

<https://patents.google.com/patent/US20070226163A1/en>

Robles, D., Nurnberger, B., Layton, B.E., 2017, "Whitepaper: The first blockchain developed by Engineers for Engineers" https://coengineers.io/publications/CoEngineers_Whitepaper.pdf

Robles, D., Layton, B.E. et al. (2016) "Blockchain Technology: Implications and Opportunities For Professional Engineers" National Society of Professional Engineers; 2015-2016 FinTech Task Force <https://www.nspe.org/sites/default/files/resources/pdfs/NSPE-Whitepaper-Blockchain-Technology-2016-final.pdf>

Robles, D., Cetto, J. A., Garcia, A., Rodríguez, D., and Valadéz, B., 1996, "A Model for The International Mobility of Engineering Professionals Restructuring the University in the NAFTA Era," CETYS University / San Diego State University, Mexicali, Baja California.

<https://www.ingenesis.com/wp-content/uploads/2011/03/INCNE596.pdf>

Deragon, J., Cate, D., Slosky, M., Robles, D. R., 2011, "Social Flights,"

<http://web.archive.org/web/20120325201424/https://www.socialflights.com>

Robles, D. R., and Bowers, M., E., 2017, "The Revolutionary Blockchain – An Opportunity for Engineering Stewardship American Society of Civil Engineers Grand Challenge Contest Winner; Best Value – IoT." https://www.scsolutions.com/wp-content/uploads/2017-03-01_BlockChainEngrStewardship_RoblesBowers.pdf

Select keynotes, panels, speaking engagements

International Bridge Construction Conference, Washington DC, June 2019. New Perspectives on Accelerated Bridge Construction, Co-Author https://youtu.be/JzSMvkle_Fc

Product Lifecycle Management Conference, Chicago November 2019. Keynote – Why Engineers Must Pay Serious Attention to Blockchain Technology. <https://youtu.be/nfiMR8frPRw>

Design-Build Society of America – Seattle Chapter. How Blockchain Can Enhance Design-Build Process.

Part 1: <https://youtu.be/FYbx4Xpd6TY>

Part 2: <https://youtu.be/EjK3IBdkKnc>

Silicon Valley Blockchain Security Forum. June 23, 2018. Introducing the Physical Sibling of the Digital Twin <https://www.eventbrite.com/e/silicon-valley-blockchain-security-forum-tickets-47011827642>

Engineering News Record (a McGraw Hill Publication) FutureTech National Conference Blockchain in the Built Environment, Panelist June 6, 2018 San Francisco <https://youtu.be/YfPmneK5uJA>

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Joint MIT-Harvard Alumni Club, Washington DC, September, 2018. Risk Management in Finance, Insurance and Engineering with Blockchain

CAASE2018 Keynote; Why Engineers Should Take Blockchain Very Seriously:
<https://youtu.be/Yghex5QhOH0>

American Society of Civil Engineers Grand Challenge Innovation Contest winner, Washington DC:
Blockchain Technology and the Emerging Tech Sector, July 2017 <https://youtu.be/LQzF6g3L6Oo>

Indiana Society of Professional Engineers and Washington Society of Professional Engineers. Blockchain technology and the Emergent Tech Sector: <https://youtu.be/i7MfTr64ag4>

National Council of Professional Engineers National Conference Seattle, WA Emerging Opportunities in The Engineering Profession July 2015 https://youtu.be/CMcQ_rNkGKU

National Association of Insurance Commissioners Center for Insurance Policy and Research; Implications and opportunities for Blockchain Technology in insurance, April 2016 New Orleans.

SIBOS 2011 SWIFT Innotrabe Sessions Toronto CA Sept 19-24. Keynote speaker and panelist: New Value Movement (video) <https://youtu.be/e3G0A2gQnew>

Seattle Blockchain Meetup 2015. Curiosumé – Converting the Resumé to Cryptography
<https://youtu.be/HLKl4xJGPCw>

CETYS University / San Diego State University, Daniel Robles Alvarez Facultad de Ingeniería Centro de Enseñanza Técnica y Superior Mexicali, Baja California, México Restructuring the University in the NAFTA Era - A Model For The International Mobility of Engineering Professionals April 1996

Seven-times Panelist/Moderator at Future of Money and Technology Summit, San Francisco CA (2010-2017)

- Identity Verification for Blockchain Technology; Future of Money and Technology Summit, San Francisco, Dec 2015 <http://www.futureofmoney.com/>
- Fueling The Decentralization Movement, Moderator The Future of Money and Technology Summit 2014; San Francisco, CA <http://www.futureofmoney.com/>
- The Integration of Community Currencies, Moderator; The Future of Money and Technology Summit; San Francisco, CA 2013 (video)
- The New Value Movement, Panelist: The Future of Money and Technology Summit; San Francisco, CA 2012 (video)
- Monetization of Intangible Capital Panelist: The Future of Money and Technology Summit; San Francisco, CA 2011
- Non-Quantifiable Exchanges Panelist; The Future of Money and Technology Summit; San Francisco, CA 2010

The Boeing Company Technical Fellowship Conference series.

Innovation Economics and the Innovation Bank, Boeing Technical Excellence Conference #9 (BTEC), St. Louis, 2005.

The Failure of the NAFTA Mutual Recognition Document for Engineering Professionals; and How that Affects Global Sourcing 10 Years Later, BTEC #11, Seattle 2006 (award, best of)

Innovation Economics; The Integration and Capitalization of Knowledge, BTEC #12, 2007, St. Louis and Boeing Knowledge Management Forum, Seattle 2007, Best of BTEC Seattle 2007;