



Dan Petrykowski

Patent Agent

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Related Services

Intellectual Property ■ Patent Prosecution, Counseling & Review

Dan Petrykowski is a patent agent with substantial experience drafting and prosecuting patents for multinational clients. His work spans a wide variety of technical fields including advanced manufacturing, autonomous vehicles, aerospace, medical devices, semiconductors, wireless communications, software, and machine learning.

Before becoming a patent agent, Dan earned a master's degree from the University of Colorado Boulder where he conducted research on laser-based sensing systems for combustion environments. Dan has also worked in various capacities as an engineer and has extensive professional experience relating to high-precision manufacturing technologies for automotive applications.

Representative Experience

- Prepared and prosecuted patent applications relating to vehicle safety systems, control of autonomous vehicles, and vehicle communications systems for a multinational aerospace company.
- Prepared and prosecuted patent applications relating to drone-based wildfire mitigation technologies and implantable neural interfaces for a leading research university.
- Prepared and prosecuted patent applications relating to continuous glucose monitoring, fitness tracking, pharmaceutical fulfillment systems, and health care data management for a multinational health care company.
- Prepared and prosecuted patent applications relating to LTE, 5G, and Wi-Fi technologies for a multinational wireless communications company.
- Prepared and prosecuted patent applications relating to NAND, DRAM, and memory device manufacturing for a multinational semiconductor company.
- Analyzed patentability, filing strategy, freedom to operate, and standard essentiality.

Publications & Presentations

Publications

- "Flow Parameter Estimation Using Laser Absorption Spectroscopy and Approximate Bayesian Computation," *Experiments in Fluids*, Vol. 62, No. 2, February 4, 2021.
- "OH Radical Measurements in Combustion Environments Using Wavelength Modulation Spectroscopy and Dual-Frequency Comb Spectroscopy Near 1491 NM," *Applied Physics B*, Vol. 125, No. 12, November 9, 2019.

- “Characterization of OH, H₂O, and Temperature Profiles in Industrial Flame Treatment Systems Interacting with Polymer Films,” *Proceedings of the Combustion Institute*, Vol. 37, No. 2, January 25, 2019.
- “Parameter Estimation Using Wavelength Modulation Spectroscopy Temperature Measurements and Approximate Bayesian Computation,” *Optics and Photonics for Energy and the Environment*, November 8, 2018.

Education

- University of Colorado Boulder (M.S., 2020)
- University of Dayton (B.S., 2013)

Admitted to Practice

- U.S. Patent and Trademark Office