

David Cain

Professional Introduction

My name is David Cain and I own High Volt Consulting, LLC, a consulting firm established 2021, after over 22 years in industry, that focuses on:

- assisting customers with developing insulation systems for electric motors,
- proper specification of materials for electric motor insulation systems,
- assessing risk factors for insulation systems to ensure proper operation and appropriate insulation system life, and
- assisting magnet wire companies in capturing opportunities within the Automotive and Aerospace industries.

My professional experience overlaps both areas within the electric motor and insulating material industries. I spent 11 years with ABB / Baldor Electric Company / Reliance Electric developing, testing, and deploying low, medium, and high voltage insulation systems for industrial motors. I also spent 11 years with Essex Furukawa Magnet Wire Company, within the product applications team, assisting customers in specifying



the proper magnet wire products for their individual applications or, if the product was specialized, working to develop the product that to meet their challenges. My last position within Essex Furukawa Magnet Wire Company was as the Director, Automotive R&D and Product Applications for the North American market.

For over 5 years, I helped develop magnet/winding wire products specifically for the automotive industry, solving complex challenges and capturing opportunities within this growing market segment. I have directly worked with numerous Global OEM, Tier 1 and Tier 2 companies from early-stage development through product launch. I have also worked with customers from the power generation sector, the commercial and residential market and the industrial motor market to optimize magnet wire products for their specific applications.

I am especially fluent in reviewing electric motor failures, determining root cause and offering insight on changes within the electric motor insulation system to prevent future failures.



Prior to my entry into the electrical insulation industry, I spent 6 years in the United States Navy as a Machinist Mate / Engineering Laboratory Technician on a nuclear powered submarine.

From an education perspective, I have a Bachelor of Science degree in Applied Science and Technology (Specialization in Nuclear Engineering Technology) from Thomas Edison State University and a Master of Business Administration (M.B.A.) from Indiana University Fort Wayne.

My focus now is to assist companies entering these emerging markets to ensure their technical challenges are evaluated and properly designed. Technically, I am well-versed in electric motor insulation systems components, magnet wire, and the technical challenges that these materials must withstand in an inverter-driven environment.

David M. Cain

Managing Member & Chief Consultant

High Volt Consulting, LLC

Phone: +1.864.520.9170

Website: www.highvoltllc.com

Email: david@highvoltllc.com

WhatsApp: +1-864-520-9170

Company LinkedIn: <https://www.linkedin.com/company/high-volt-consulting-llc/>

Personal LinkedIn: <https://www.linkedin.com/in/davidmcain/>