

Muhammad Karimi

Industry

4.0

About Author



Dr. Karimi holds PhD in Microwave and RF systems. He is the co-founder and chief technology officer (CTO) of Saher Flow Solutions (former SensoTech). He has worked in collaboration with EXPEC ARC Aramco, Aramco Services Company in Houston and WINS, Norway on various metering related projects. He holds 10 patents and have authored 20+ peer reviewed journal and conference publications. He has received many national and international awards such as King's Prize, ADIPEC Breakthrough Research Award, ADIPEC Young Technical Professional of the year award, IEEE Best Technical Paper award and IEEE Best Thesis (3MT) award and IEEE Sensor Council Technical Achievement Award.

Tap the untapped potential

Maximizing industrial efficiency

Digitalization has brought a paradigm shift in industrial efficiency over the past few decades. We are living in an era in which data is considered as the most valuable asset. Many industrial processes, optimization routines and decision making relies on the interweaved data obtained from numerous interconnected devices. Wireless sensing, smart analytics and remote monitoring has enabled many industries to maximize their efficiencies and profits. Deep learning techniques applied on large pool of data has stretched preventive maintenance schedules resulting in reducing OPEX. In parallel, advanced analytics powered by artificial intelligence (AI) helps indicating fault patterns resulting in huge cost saving which could have incurred due to expensive down time.

With a team of highly experienced researchers, industry veterans, engineers and entrepreneurs, SensoTech is playing its role in digitalizing the industrial processes with initial focus on oil and gas industry. SensoTech is specialized in designing wireless and remote sensing systems for complex industrial parameters such as multiphase flow experienced during oil extraction process. Our wireless solutions are customized and certified to work in harsh and hazardous operating conditions of the industry. With the help of our satellite based wireless system, production engineers can monitor the performance of multiple oil fields from anywhere in the world. Without needing to perform physical visit, well intervention schedule can be managed remotely based on the valuable data obtained from our wireless multiphase flow meter. SensoTech has in-house capacity to design end to end system including antennas, microwave & RF frontends, smart embedded systems and advanced software with built-in analytics capabilities. In addition to providing niche products for certain industrial needs, SensoTech also works closely with its clients to design custom solutions for them. Executive team having industrial experience of more than 45 years enables SensoTech to digitize the existing processes or offer customized solutions to specific industrial challenges. Contact us today to help you tap the untapped potential.

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