Jagannathan S., Ogundare O., Madasu S., Rangarajan K. “Stochastic realization of Parameter Inversion in Physics-Based empirical models” **US Patent No: 11668684**, Granted: June 6, 2023.

Ogundare O., Quirós Araya G., Akrotirianakis I., Shukla A., “Resiliency Analysis of LLM generated models for Industrial Automation” *The 2023 International Conference on Modeling and E-Information Research, Artificial Learning and Digital Applications (*ICMERALDA 2023*)*

Ogundare O., Rolovic R., Jacob R., Somaskandan R., Nicholson J., Ozburn G., “Gripper Control in a Coiled Tubing System”. **US Patent No: 11566479**, Granted: January 31, 2023*.*

Ogundare O., Fagbemi S., “Tubular Lockup Prediction in Deviated Wells using Markov Chains”. *ASME 2022 Onshore Petroleum Technology Conference (OPTC2022)*.

Ogundare O., Jagannathan S, “Computational acoustic model for non-intrusive inspection of a fluidic channel” *IEEE 5th Asia Pacific Conference on Intelligent Robot Systems (ACIRS),* 2020.

Ogundare O., Quirós Araya G., Qamsane Y., “No Code AI: Automatic Generation of Function Block Diagrams from Documentation and Associated Heuristic for Context-Aware ML Algorithm Training”. *7th International Conference on Mechanical Engineering and Robotics Research (ICMERR 2022).*

Bennett B., Ogundare O., Olmi C., “Method and system for non-intrusively determining properties of deposit in a fluidic channel” **US Patent No: 11448582**, Granted: September 20, 2022*.*

Fakih, M., Dharmaji, R., Moghaddas, Y., Araya, G.Q., **Ogundare, O**. and Faruque, M.A.A., 2024. LLM4PLC: Harnessing Large Language Models for Verifiable Programming of PLCs in Industrial Control Systems. arXiv preprint arXiv:2401.05443.