

Sergiu Ivanescu
Project Engineer
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Sergiu Ivanescu joined the Impact Analysis, Inc. team in May, 2025 after completing his studies in Biomedical Engineering and Neuroscience at the University of Michigan. His accident reconstruction and biomechanical experience includes incidents involving passenger vehicles and industrial equipment. He focuses on momentum and crush energy analyses and utilizing 3D laser scanning technology to capture accident scenes and vehicles. He is also a certified Bosch CDR Analyst and Technician.

Sergiu's studies at the University of Michigan were focused on the research and analysis of nerve stimulation, as well as research into the design and function of electrical circuits. Sergiu also served as the Project Lead for "The Initiative" with Michigan Health Engineered for All Lives in Ann Arbor, Michigan and Kumasi, Ghana. "The Initiative" sought low cost solutions to neonatal mortality in low-resource communities.

Outside of the classroom, Sergiu served as a volunteer with the University of Michigan hospitals, a tutor with Language Arts for Children, a medical scribe with the Henry Ford Emergency Room in Detroit, Michigan, and is a member of the inaugural class of the BISURI Program.

Sergiu is fluent in English, Romanian and speaks intermediate German.

ACADEMIC CREDENTIALS/PRIOR EXPERIENCE

B.S.E., Biomedical Engineering, University of Michigan, 2024

B.S., Neuroscience, University of Michigan, 2024

Assistant Researcher, Peripheral Neural Engineering and Urodynamics Lab, 2022-2024

Circuit and Controls Engineer, Initiative Project Team (MHEAL) - Electrical/Heating Subteam, 2022-2024

Project Lead, The Initiative, MHEAL, Ann Arbor, Michigan and Kumasi, Ghana, 2023-2024

LICENSES AND CERTIFICATIONS

Certified Bosch Crash Data Retrieval (CDR) Tool Technician, June 2025

Certified CDR Analyst, June 2025

SAE Professional Development Program: Injuries, Anatomy, Biomechanics, and Federal Regulation, September 2025

PUBLICATIONS

L.R. Madden, R. Liu, S. Ivanescu, T.M. Bruns, "Physiological activity within peripheral nerves influences neural output in response to electrical stimulation: an in vivo study," *Journal of Neural Engineering*, doi.org/10.1088/1741-2552/ae09fe, 2025.