

Serkan Sandikcioglu is a Senior Consultant in the Rail Practice Group, where he helps expand the firm's rail consulting practice through technical project execution, client support, and business development. He supports rail-related engineering investigations, collaborates with internal teams and clients, prepares proposals and reports, communicates findings clearly, and helps identify opportunities where ESI's rail, analytics, and technical expertise can deliver value. He also contributes to publications and presentations, builds professional relationships, and works to grow a sustainable book of business in the rail market.

Education

M.S., Engineering Management, Duke University, 2018
B.S., Industrial Engineering, Bogazici University, 2015

Languages

- English
- Turkish

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Senior Consultant, 2026 – Present

ENSCO Rail, 2016 – 2026

- Director of AI/ML, 2018 - 2026
- AI/ML Business Area Lead 2022 - 2025
- Data Analytics Product Manager (Algorithms) 2021 - 2022
- Product Manager (Software) 2019 - 2021
- Project Manager (ML Predictive Analytics) 2018 - 2019

Little Otter, 2023 - 2024

- Consultant (Healthcare AI) 2023 - 2024

Proctor & Gamble, 2015 - 2016

- Process Engineer 2015 - 2016

Contact Information

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Areas of Specialization

- Product Management Team Leadership
- Agile & Scrum Methodologies
- Machine Learning Technologies
- Large Language Models & Model Context Protocol
- Predictive Data Analytics
- Stakeholder Engagement & Communication
- 3rd Party Communication and Tool Implementation
- Strategic AI/ML Investment
- Cloud Computing (AWS)

Publications

“Advanced Track Geometry Forecasting Methods,” **Serkan Sandikcioglu**, Radim Bruzek, Federal Railroad Administration (FRA) <https://railroads.dot.gov/elibrary/advanced-track-geometry-forecasting-methods>

Presentations

“Cell Phone Data Based Approach for Prevention of Trespass Casualties on Railroad Track,” **Serkan Sandikcioglu**, et al., American Society of Mechanical Engineers (ASME) Joint Rail Conference, 2023 April, Baltimore MD, United States of America

“Rail Force Management Applications Demo Session,” **Serkan Sandikcioglu** and Radim Bruzek, Federal Railroad Administration Track Symposium, 2022 April, St. Louis MO, United States of America

“Automated Data Processing and Analysis for Predictive Analytics and State of Good Repair Railroad Capital Planning,” **Serkan Sandikcioglu**, Aragona A, Maldonado R, Transportation Research Board 101st Annual Meeting, 2022 January, Washington DC, United States of America

“Track Geometry Prediction Methodologies with Discontinuity Removal Techniques,” **Serkan Sandikcioglu**, Big Data in Railroad Maintenance Planning Conference at University of Delaware, 2021 December, Delaware, United States of America

“FRA Efforts in Advanced TGMS Forecasting Models,” **Serkan Sandikcioglu**, Baillargeon J, Van Der Westhuizen J, Bruzek R, AREMA 2021 Annual Conference, September 2021, Indianapolis United States of America

“Rail Geometry Predictive Analytics with Time Series Models”, **Serkan Sandikcioglu**, Baillargeon J, Van Der Westhuizen J, Bruzek R, Big Data in Railroad Maintenance Planning Conference at University of Delaware, 2020 December, United States of America

“Rail Stress Adjustment Methodology,” **Serkan Sandikcioglu** and Radim Bruzek, Association of American Railroads and Federal Railroad Administration Rail Neutral Temperature Workshop, 2020 October, United States of America