Wesley Tanner

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Roles and Responsibilities

As an **engineering director**:

- Recruitment and management of teams of 8-12 engineers.
- Translation of business objectives into engineering initiatives and product roadmap.
- Managing vendors, contractors, and strategic partner integrations.
- Project leadership, architecture, and sustained role as an individual contributor.

As a **software engineer**:

- Design, implementation, and operation of production-grade machine learning infrastructure, performing tens of millions of inferences per day.
- Apache Kafka, Kafka Connect, and Elasticsearch systems design, tuning, and operations on systems processing billions of records daily.
- Design, implementation, and operation of domain-specific large-scale data ingest from external platforms.

As a **data scientist**:

- Design and implementation of domain-specific vector space modeling for natural language processing problems.
- Design and implementation of domain-specific classification and regression cost functions mapped to business objectives

As a **systems engineer**:

- Innovative modem design techniques over non-traditional communication channels
- Low bit rate voice codec modeling, simulation, and integration.
- RF propagation modeling of denied, high Doppler, and severe multipath environments from UHF to EHF.
- Tactical data link design, integration and test for various aircraft avionics systems.

Professional Experience

- Director, Data Engineering, Zefr (2017 - Present). Los Angeles, CA

- Data Engineer, Zefr (2014 - 2017). Los Angeles, CA

- Field Engineer, Northrop Grumman (2013). Southwest Asia

- Systems Engineer, Northrop Grumman (2010 - 2013). San Diego, CA

- Satellite Systems Engineer, LinQuest Corporation (2006 - 2010). San Diego, CA

- Systems Engineer, Novonics Corporation (2006). San Diego, CA

- Systems Engineer, Northrop Grumman Space Technology (2003 - 2006). San Diego, CA

Education

- M.S. Electrical Engineering, San Diego State University, San Diego CA (2011)

- B.S. Electrical Engineering, Rensselaer Polytechnic Institute, Troy NY (2003)