**Alexander V. Granato, E.I.T**

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OBJECTIVE STATEMENT

**Transportation Planning Engineer** looking for opportunities within a multi-disciplinary firm or agency.

EDUCATION

**MS, Statistics-Analytics,** *University of Illinois Urbana-Champaign*  (Aug. 2021 – Dec. 2022)

* Major GPA: 3.44/4.00

**Engineer in Training**  (Jul. 2021 – Present)

**BS, Civil Engineering,** *The Ohio State University* (Aug. 2016 – May 2021)

* Cumulative GPA: 3.478/4.00
* Minor: Statistics
* Engineering Concentration: Global Options in Engineering

PROFESSIONAL EXPERIENCE

**Transportation Planning Engineer,** *The Corradino Group, Indianapolis, Indiana*  (Mar. 2023 – Present)

* Located presentation data for 21 Visioning Corridors in Kentucky using TransCAD and ArcGIS Pro
* Updated roadway networks for Terre Haute and 3-mile area in Kentucky using socioeconomic data and Google Maps
* Influenced data decision at INDOT to use 2023 data over 2019 data for average daily and truck traffic totals for freeways
* Geo-located colleges and hospitals across Indiana and identified equity-focused communities
* Derived traffic microsimulations for Brownsburg and Lebanon, Indiana using TransModeler
* Determined work trip percentages across 86 road segments in Indiana

**Graduate Research Assistant,** *Civil and Environmental Engineering Department, University of Illinois* (May 2022 – Aug. 2022)

* Determined total number of lane changes for 12 videos of 6 crashes using Microsoft Excel and QuickTime Player
* Compared manually determined volume data for 5 crashes (4 on I-90) to within 5% accuracy of sensor-determined data using Excel
* Developed draft for report declaring manually determined volume data sufficiently close to sensor data

**Student Research Assistant I,** *Department of Civil, Environmental and Geodetic Engineering, OSU* (Oct. 2019 – Aug. 2021)

* Co-produced Origin-Destination matrices of weekly bus traffic for research on the Ohio State campus
* Constructed 150 clips of 60 QuickTime Player videos based off bus stop data
* Cut 72 videos into segments of said bus routes through MATLAB

**Student Utilities Assistant,** *Office of Student Life Energy Management & Sustainability, OSU* (Apr. 2019 – Aug. 2021)

* Analyzed 550+ monthly energy bills for building management dataset, and replicated data in Microsoft Access database
* Co-assembled 2020 energy usage predictions for the campus using Microsoft Excel and past data from this branch
* Mapped out information from 44 campus buildings to construct HVAC Mechanical Schedules
* Discovered and diagnosed 25+ missing and 50+ reactivated accounts using e-Reports and Microsoft Access
* Assembled 500+ missing bills from years past on e-Reports; and corrected 650+ missing or incorrect bill start dates in Microsoft Access database

PROFESSIONAL ORGANIZATIONS

**Associate Member of** *American Society of Civil Engineers*  (Jun. 2020 – June 2023)

* Contributed to [5+ Discussion chats every month](https://collaborate.asce.org/get-started/asceprofile/contributions/contributions-list) as Topic Moderator

**Co-Secretary of the Resident Leadership Board at** *University of Illinois campus* (Oct. 2021 – Apr. 2022)

* Reconnecting dozens of graduate students to campus life with budget of $8,000 per year

SKILLS

TransCAD, TransModeler, RITIS, ArcGIS Pro, data research, R/RStudio/R Shiny, HTML/CSS, JavaScript, Prismic, Python, SAS