



# Alexander John

## Graduate Engineer

### Education

Bachelor of Engineering (Honours) (Civil) 2021  
Flinders University

### Professional Affiliations

Engineers Australia (GradIEAust)

### Key Skills / Qualifications

Transport Modelling including SIDRA Intersection and ANRAM  
Geographical Information System mapping using QGIS and Mapinfo  
Heavy Vehicle Route Assessments and Turning Templates (including NHVR permits)

### Responsibilities and Experience

Alexander is a graduate engineer with a passion for traffic engineering and transport modelling. Throughout his studies he has had practice in developing transport models, writing design reports, analysing Standards and Guidelines, and creating engineering drawings. His work experience exposed him to further experience on SIDRA Intersection and teaching him ANRAM.

As a traffic engineer his main duties include:

- Traffic investigation and Parking reports;
- Heavy vehicle route assessments, both detailed and network level including turning templates
- National Heavy Vehicle Regulator permit assessment and processing
- Intersection concept designs;
- Blackspot assessments and concept designs;
- Traffic surveys, data collection and processing;
- Geographical information system mapping;
- Asset management for QGIS maps.

Projects that Alexander has been heavily involved with include:

- B-Double and A-Double network level heavy vehicle route assessment for 1,500km across Tatiara District Council – HDS Australia
- B-Double detailed heavy vehicle route assessment for CPB Contractors – HDS Australia
- B-Double network level vehicle route assessment for Barunga West Council – HDS Australia
- Footpath masterplan for Alexandrina Council – HDS Australia
- SA regional road priority project - HDS Australia
- Southern Mallee District Council road hierarchy project – HDS Australia
- Developing Infrastructure Safety Upgrade Recommendations for Intersections – (Honours Project, Flinders University)
- Speed limit review in the Adelaide Hills – DIT
- Safety review of Victor Harbor Road – DIT

### Employment Summary

March 2022 to Present – Graduate Engineer – HDS Australia Pty Ltd

December 2021 to February 2022 – Undergraduate Summer Vacation Program Student – DIT

