

King Wilkinson

Engineering Technician I, Surveying and Drafting

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SUMMARY

Early career engineering technician candidate with supervised preparation in **field surveying**, **computer aided drafting**, engineering mathematics, and infrastructure data collection. Completed hands on training with tapes, range poles, prisms, level rods, hubs, stakes, **traffic cones**, and introductory **total station** workflows. Produced simple maps, diagrams, and plan drawings in AutoCAD, then checked distances, areas, elevations, grades, and geometry against field notes. Applied trigonometry, geometry, and basic algebra during roadway, utility, and traffic study exercises. Maintained instruments, organized technical records, operated plotters and computers, and followed safe field procedures. Brings steady measurement habits, clear documentation, practical technical curiosity, and readiness for supervised work supporting roads, utilities, buildings, and public infrastructure.

EDUCATION

High School Diploma

Boise Technical Academy 🎓 GPA: 3.5 📅 2025 📍 Boise, Idaho

Coursework: Trigonometry, geometry, basic algebra, construction surveying, AutoCAD drafting

TECHNICAL SKILLS

- **Survey Equipment:** Total station, theodolite, level rod
- **Field Measurement:** Tape, chain, plumb bob
- **Survey Marking:** Hubs, stakes, range poles
- **Drafting Software:** AutoCAD, layers, dimensions
- **Drafting Output:** Plotter, copying machine, diagrams
- **Engineering Mathematics:** Trigonometry, geometry, basic algebra
- **Traffic Equipment:** Traffic counters, radar speed equipment, recorders
- **Traffic Components:** Counter hoses, field markers, traffic cones
- **Technical Records:** Field notes, location maps, assessment rolls
- **Infrastructure Data:** Water pump age records, technical data, field observations
- **Survey Operations:** Benchmarks, monuments, line of sight
- **Computer Tools:** Computers, calculators, spreadsheets

EXPERIENCE

Surveying and Construction Layout Project

University Project 📅 February 2026 to May 2026 📍 Boise, Idaho

Completed supervised roadway and utility layout training covering dimensional control, field measurement, elevation checks, equipment care, technical records, and plan conversion. Followed instructor direction while practicing safe setup, observation, calculation, and **drafting** workflows.

- Completed supervised site layout for simulated roadway and utility improvements using provided control information.
- Measured distances with tapes, range poles, and prisms, then recorded structured field observations.
- Used a **level rod** during supervised leveling, determined elevations, and checked calculation results.
- Placed hubs and **stakes** for assigned **points** and grades while applying safe tool handling.
- Set up, moved, cleaned, and stored introductory **survey equipment** under direct supervision.
- Converted measured distances and **elevations** into simple plan drawings checked against field notes.

AutoCAD Infrastructure Drafting Project

Course Project 📅 September 2025 to December 2025 📍 Boise, Idaho

STRENGTHS



Field Measurement

Recorded tape, prism, and level rod observations during site layout practice. One careful reread often caught a small discrepancy before drafting began.



Technical Learning

Picked up unfamiliar surveying workflows through supervised practice. Questions became useful checks, especially when equipment setup or calculations felt new.



Drafting Accuracy

Built clear AutoCAD diagrams with consistent layers, labels, and scale. Classmates often asked for help tracing revisions cleanly.



Safe Equipment Care

Set up, moved, cleaned, and stored instruments responsibly. Treating equipment well made each later field exercise smoother and more reliable.



Team Support

Shared calculation checks and field notes during group exercises. A quick peer review frequently made final maps easier to trust.

SKILLS

AutoCAD Surveying Drafting

Trigonometry Geometry

Basic algebra Level rod

Range pole Prism Field notes

Traffic counters Radar speed

[Technical data](#) [Calculations](#)

[Infrastructure plans](#)

LANGUAGES

English Native

Spanish Beginner

MY CAREER

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MONTHS

Produced introductory infrastructure drawings from supplied dimensions and drafting standards. Applied mathematics, file organization, plotting, revision control, and instructor feedback while translating measured information into clear technical diagrams.

- Produced simple maps and **infrastructure** diagrams in **AutoCAD** from provided dimensions and standards.
- Applied **trigonometry**, geometry, and algebra to calculate site distances, areas, and **grades**.
- Traced and revised plan elements using consistent layers, dimensions, labels, and plotted output.
- Operated a classroom plotter and corrected scale and annotation issues during review.
- Maintained a drawing log and organized source files so revisions remained traceable.
- Presented completed plan sheets and explained measurement assumptions and calculation checks.

Traffic Data Collection Simulation

Student Lab 📅 March 2025 to May 2025 📍 Boise, Idaho

Completed supervised traffic study practice involving simulated counters, **radar speed equipment**, hoses, field markers, cones, spreadsheets, and technical reporting. Focused on accurate observation, safe placement, equipment checks, and clear data summaries.

- Completed supervised **traffic study** practice using simulated counter and radar speed data.
- Set field markers and **traffic cones** in a controlled practice area using safety procedures.
- Inspected traffic **counter hoses** and identified placement and connection issues during practice.
- Entered observations into spreadsheets and checked totals and time intervals for completeness.
- Calculated traffic volume and speed summaries, then prepared a concise technical table.
- Presented findings and documented equipment handling, data limitations, and repeat measurement recommendations.

PROJECTS

Roadway Measurement and Grade Study 📅 2026

Worked with classmates during supervised field practice to compare tape measurements, level rod readings, and grade calculations. Shared notes, checked unusual results, and created a simple drawing that made field observations easier for others to review.

Infrastructure Plan Review Portfolio 📅 2025

Collaborated with drafting classmates on an AutoCAD plan review. Each person checked layers, dimensions, scale, labels, and calculations, then discussed revisions respectfully before producing a clearer plotted plan.

LEADERSHIP & AWARDS

- Received Technical Mathematics Achievement Award in 2026 for strong performance in applied calculations and technical coursework.
- Earned Career and Technical Education Excellence Recognition in 2025 for consistent effort, practical learning, and dependable project work.
- Served as Peer Tutor for a Mathematics Study Group from 2025 to 2026, helping classmates work through challenging calculations.

CERTIFICATIONS

- AutoCAD Foundations 📅 2026
- Construction Surveying Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Campus Drafting and Design Workshop, 2025 to 2026, sharing drawing feedback and practical drafting habits.
- Peer Tutor, Mathematics Study Group, 2025 to 2026, supporting classmates with geometry, algebra, and applied technical calculations.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST