



2023 SUMMER INTERNSHIPS

We are always on the lookout for excellent interns. Student interns don't need experience to apply for the internship positions listed below. Earn while you learn. Take that first step and email your interest and resume to TD2MAIL@TD2CO.COM or fill out our online application at <https://www.td2co.com/careers/>.

Civil Engineering (Civil/Geotechnical/CMT/SI) Field Support Technician

Experience in the field offers firsthand exposure to the industry and the opportunity to get your hands dirty. Typically, TD2's Civil Department hires six to eight third-year engineering students as Field Tech Support on the drill rig, collecting soil samples and conducting testing in the lab. TD2 also conducts Construction Materials Testing and Special Inspections. Interns accompany inspectors to job sites as they provide quantifiable results on the durability, strength, and characteristics of the materials used during construction (masonry, soil, cast-in-place concrete, and asphalt) so they perform as expected and endure over time.

Land Survey

Land Survey is a perfect place to start if you love the outdoors and are good at math. Our Land Survey Department hires one or two interns for the summer months. The student has a full-time, immersion

experience holding instruments for the Surveyor on a 2- or 3-man crew, getting familiar with the equipment (Leica Total Station, Leica GPS), and learning the importance of site layout and elevations to setting grade.

Structural Engineering Office Support Technician

TD2's Structural Department hires one or two third-year engineering students to work as Structural Office Tech Support. TD2 provides a hands-on learning experience and the opportunity to develop, participate and learn critical roles and functions. In addition, the intern works alongside professionals who have a lifetime of experience to share. Tasks may entail:

- Working in AutoCAD and Revit
- Simple design calculations/loads for footings and retaining walls
- Shop drawings
- Interacting with clients on the phone and in-person
- Site visits – assessing current conditions, measuring beams and columns

Basic Requirements:

- Willingness
- Curiosity
- Driver's License

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2022 LOOKING BACK MOVING AHEAD 2023

TD2
engineering
& surveying

FINDING THE NEW NORMAL

Winter 2023/Issue No. 52

LOOKING BACK 2 MOVE AHEAD

There is merit in looking back to move forward. We'll take this issue to reflect on 2022 and anticipate 2023. Last year we focused on a keyword we learned in 2021, **VERSATILITY**. The ability to change and adapt remains relevant as we find our new normal.

FLEXIBLE WORKPLACE

In our workplace, embracing versatility continues as we are not yet out of the pandemic woods. And TD2 employees continue working remotely when necessary. It allows our employees the digital connection to work smarter and productively from home, keeping projects moving forward. Getting the work done has been a central tenet of TD2's culture of sustaining client satisfaction.

EMPLOYEE DEVELOPMENT – PROFESSIONAL PATH

TD2, like every other employer, wants to increase productivity, attract talent, and reduce turnover. We also value employee diversity and development. We've seen great success in growing talented engineers and surveyors by encouraging our people to get on the professional path. We intentionally challenge their assumptions, expose them to new experiences, support their skillsets/interests/talents, provide technical resources/training, and surround them with knowledgeable colleagues. Project by project, their confidence and responsibilities grow. This ultimately builds their individual career path, and TD2 expands our expert team of professionals.

STAFFING LONG-TERM

Last year's tight labor market continues, adding to the challenge of keeping our human resources escalator full. We will continue to recruit the right people, invest in our employees, and encourage them to take advantage of opportunities to learn and grow.

TD2's bench strength is our ability to fill critical positions with talented internal candidates. The stronger, the better, and we continue to cross-train to develop skills, knowledge, and an understanding of the business.

Student interns are also a critical component of keeping projects moving. 2023 Summer Internship positions are described on Page 4, and we are taking applications now.

SUCCESSION PLANNING SIDE NOTE

Some good news we received as part of 2021's succession planning process that promoted three new principals was an outside perspective on how talented and prepared our employees are. We are in good hands for developing future leaders.

CHANGE

Change can be for the better, for the worse, or both. Is your new normal upended and uncomfortable, or are you looking forward to how we can learn and build? This next year is unknown, but we feel well-prepared to recognize the opportunities, meet the challenges, and shift as the market requires. We'll soon see.

RETIREMENTS CONGRATULATIONS

TD2 had a couple of 2022 retirements. We will deeply miss Theresa and John. Congratulations on your life ahead. Happy retirement!

THERESA TRAUTMAN Administration

Theresa retired in June after nine years in TD2's Accounting Department. Theresa handled accounts payable, accounts receivable, survey billing, job setup, and payroll processing.

An avid car enthusiast, Theresa is very involved with weekly car shows in Omaha and surrounding areas, Nebraska and Iowa. She is also active in the Midwest Street Rod Association car club she recently joined.

In October, she started her second career (part-time) as an in-home caregiver for the elderly, which she finds very rewarding. She looks forward to many trips to southern Missouri to visit family. And other travels as well, beginning with the Grand Canyon in April. THANK YOU, THERESA.



JOHN KOTTMANN Civil Engineering

Nobody deserves to put their feet up more than John Kottmann, but he also may hold the record for the number of retirements.

John returned to TD2 in 2019 after retiring from the City of La Vista as their City Engineer. However, before he joined the City, he was a Senior Project Civil Engineer for TD2 for 29 years. The City of La Vista was John's first responsibility from 1984 to 2010. During this last TD2 stretch, John has mentored many young engineers, generously sharing the benefit of his professional experience.

Over John's long career, he handled scores of critical projects. His clear thinking and commitment to good work have been instrumental in TD2's longevity and success. THANK YOU, JOHN.



REGISTRATIONS CONGRATULATIONS

MATTHEW WALSTROM PE Structural Engineer

TD2 welcomes our newest professional engineer, Matthew Walstrom. Matt passed his Principles and Practice of Engineering (P.E.) test in April 2022.

Matt joined TD2 CMT/SI in 2017 after a 19-year career as an Inspector, hired specifically to inspect the varied requirements of "The Atlas." The conversion of Creighton University Medical Center into multi-family housing. But Matt's heart was set on completing his degree and becoming an engineer. He was in the last year of his civil engineering program. Hopping on the next student intern spot in Structural, he soon moved from a field position to inside. He graduated from the University of Nebraska with a B.S. in Civil Engineering in 2018, got his E.I. in 2019, and joined the Structural Engineering department full-time.

Matt's story is one of timing, tenacity, and transition. His wealth of field experience and construction knowledge informs his engineering design and has become a valuable resource for the structural team.



STRUCTURAL SYNOPSIS

In 2022, the structural department stayed busy with infill podium apartments like **Clove, 7837 Dodge St.** We anticipate these multi-family projects to continue through 2023. Our work in the healthcare sector continues strong with significant projects like **Children's West Omaha Ambulatory, 204th and Harrison**, and the **UNK-UNMC Rural Healthcare Education Phase II in Kearney, NE.** Large commercial projects continue out West, like **H+H Chevrolet, Highway 370 & I-80.**

Projects for local non-profits may be most affected by the continuing effects of high costs. Higher than expected cost estimates may delay some project starts. Projects that kicked off in 2022, like **Community Alliance, 72nd Mercy**, are well underway.

Project Update: We featured The Joslyn Art Museum Expansion rendering last year. Design Architect, Snøhetta in partnership with local Alley Poyner Macchietto Architecture, has designed the expansion and renovation. And TD2, as the Structural Engineer of Record, is bringing the ambitious structure to life.

- Full-story-height steel trusses create a 40-foot cantilever over the main entrance.
- High-strength steel rods hanging the second floor from the roof structure create a shallow second floor with minimal columns.
- For the complex geometry of the large Atrium staircase, only one fabricator in the U.S. could roll the wide-flanged steel stringers for

DISCIPLINE REVIEWS

CIVIL CHECK-UP

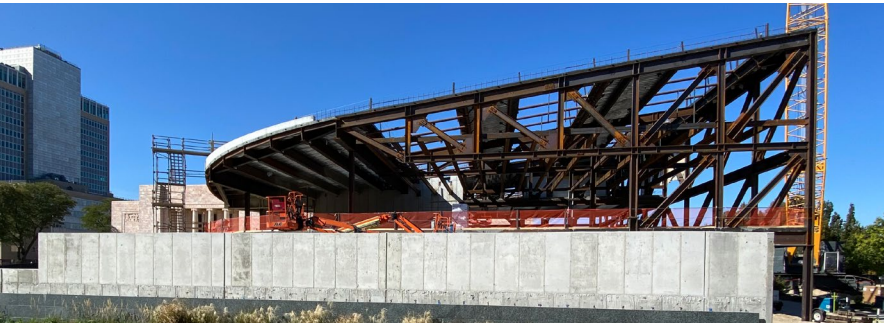
Our civil engineers are working overtime on the many developments in play. At the moment, specific industry sectors remain strong, like commercial, industrial, and mixed-use. Other sectors, like residential/single-family, may be feeling the hangover effects of inflation and rising interest rates.

Optimistically, clients are pursuing expansions to high-profile projects we have featured previously. TD2 is always available to help clients find value and explore opportunities.

- **Antler View & Antler View East (Spring 2020 Issue)**, South of West Maple Road between 180th and 192nd Streets, expanding commercial and multi-family components to 40 acres West across 192nd Street.
- **Springfield Commerce (Fall 2021 Issue)**. Highway 50 and Platteview Road, adding additional buildings to the West.



- the 60-foot, double-curved design.
- Complex coordination for multiple staircases, curved glass facades, hidden catwalks, gallery ceiling supports, faceted roof skylight, specialty doors, and concealed roller shades.



SURVEY SUMMARY

Lessons learned: 2022

was a year of practice and preparation. The project scope still determines the type of drone application, either the fixed-wing Sirius Pro or the Falcon 8+ octocopter. These photogrammetry drones take many overlapping high-resolution photos. From that data, the 3D reconstruction contains elevation/height information, texture, shape, and color for every point on the map. Our clients and engineers have had a positive reaction to these information-packed deliverables. Shortly, we will add a LIDAR drone to the fleet to accurately capture areas of heavy ground cover that otherwise appear as areas of uncertainty in the data and require follow-up. LIDAR, or LIght Detection and Ranging, sends out pulses of laser light and measures the exact time it takes for these pulses to return as they bounce from the ground.

New additions: Emily Rohn has joined Dave Neef, R.L.S., on the drone team. She expanded our coverage to meet the increase in projects we expected. As an FAA-certified drone pilot, Emily sees the exciting potential of this market sector. Her data-driven/technical perspective and Dave's professional land surveying experience provide projects and clients with the best service. Ryan Ruenholl, E.I., continues to help the team as he prepares to take his P.E. exam this year.

Safety and security: FAA regulations continue to change. TD2 is working with manufacturers on retrofitting our drones with a Remote ID Broadcast Module by September of 2023. Remote ID will provide unique identification and location information about drones in the federal airspace.