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Team,

I am writing in application to the Survey Department. My whole life has been a journey to acquire the skills outlined, and my passion for the outdoors should seal the deal.

After Eagle Scout I followed my father's Civil Engineering lead and joined the Black & Veatch Engineering Explorers Post. I was quickly voted to Vice President of the group as we met weekly to plan our travels. Over the three years we attended three National Leadership Conferences. Chicago and Washington DC provided a powerful urban experience as the conference brought us together for the challenges ahead. Just like in Science Olympiad in Jr and High School, we brought home medals and honors as we completed Communications Challenge, Structure Building and more. We were in the presence of Fire, Police, EMT, and other Explorer career fields – succeeding among the best of the best.

Environmental Science at UMKC grabbed my heartstrings and led me to Geology. Environmental Geophysics and Environmental Geology taught me further how our water and landfill actions are affecting our natural world, and will for millennia to come.

Upon graduation I found an engaging job at the City of Olathe. As a Control Operator, I was able to use SCADA data, apply it in Excel, and find anomaly all over the Water Plant. We corrected error after error, and I kept finding more. We cross-trained in other Water departments and celebrated with our Wastewater crew for department victories.

Since moving to Colorado I've conquered the ferocious of mountain storms at 14kft and 5kft. I accepted a position as Instrument Operator under the Senior Crew Chief Noah, and expanded on his scientific understanding of the adjustments made to the laser via temp and humidity. I corrected errors in settings on the Trimble equipment for all of the crews, insisted we buy a gas monitor and further safety gear, trained employees in safe CSE (confined space entry), and trained 5 new Crew Chiefs who knew almost nothing about Construction Survey.

Within the Construction Survey field our team was responsible for setting up Original Control, Limits of Construction, and maintaining that system as we performed the initial grading and Utilities Infrastructure layouts. The process included staking the Building foundation, stormwater enclosures, setting Building Grid to within 5/1000ft, verifying ADA sidewalk grades, verifying water, storm and sewer flows, and performing As-Built surveys on completion.

Boundary Survey cross-training expanded my view of the USA and its history as I found survey markers along with summit markers on the mountain ridges I was running. We performed ALTA Surveys with efficient coding for auto-layering in CAD and ran laser scanning surveys of complex structures. I proved especially proficient at finding Section Corners that were disturbed or relocated by Surveyors not respecting Property Law, created new ties, and reset some placements for CDOT. We resolved issue after issue, finding errors and catching our own with redundant checks. Measure twice, survey and build once.

Surveying the stormwater enclosures became my favorite activity; Superintendents strongly despised them. Stormwater creates downstream flooding, which creates upstream flooding. New designs include tiered drain holes and an overflow that had to be precisely measured, along with pond volume. I discussed ways to utilize the new laser scanners to make work more efficient and aided Chiefs in getting efficient information. The perfect survey creates efficiency in not having to rebuild; stormwater encompasses many environmental science topics, a favorite aspect of the job.

To Growth,

Clint White