

Jacob Wysko

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Geospatial & Software Engineer, specializing in innovative solutions for surveyors and geospatial engineers, with an expertise and passion for software engineering, remote sensing, and GIS.

EDUCATION

Michigan Technological University <i>Bachelor of Science in Geospatial Engineering, Minor in Computer Science</i>	Aug. 2020 – est. Aug 2024 Houghton, MI
Lansing Community College <i>Dual Enrollment from Haslett High School</i>	Jan. 2020 – May 2020 Lansing, MI

EXPERIENCE

Land Surveyor <i>KEBS, Inc.</i>	May. 2022 – Aug. 2023 Haslett, MI
<ul style="list-style-type: none">Directed and completed field work for cadastral, ALTA, and topographic surveys using Leica surveying equipment.Operated unmanned aerial systems and photogrammetry software to produce high-resolution orthomosaic imagery for use in ALTA surveys.	
Director of Information Technology <i>Inspired Health, LLC</i>	Mar. 2017 – Present Okemos, MI
<ul style="list-style-type: none">Initialized computer systems for a local wellness center. Provide assistance for company systems and technologies.Development of fully integrative website with user management, and manage business listings and social media.Development of solutions for autonomous online web courses that handle user management and billing.	
Teaching Assistant <i>Michigan Technological University</i>	Aug. 2022 – Present Houghton, MI
<ul style="list-style-type: none">Provide assistance for hands-on surveying labs. Aid students with setup and operation of surveying equipment, geospatial computations, and best-practice surveying procedures.Grade field equipment labs and AutoCAD Civil 3D labs for Introduction to Surveying, grade exams and projects for Route and Engineering Surveying, and grade computational workbooks for Geospatial Computations.	
Student Academic Mentor <i>Michigan Technological University</i>	Aug. 2021 – Apr. 2022 Houghton, MI
<ul style="list-style-type: none">Hosted weekly computer science study sessions for students in Data Structures. Provided feedback on assignment submissions, conducted crash courses on complex topics, and encouraged in-depth group discussions to foster understanding of computer science principles.	

EXTRACURRICULAR

President <i>Douglass Houghton Student Chapter of the National Society of Professional Surveyors</i>	Dec. 2021 (President Sep. 2023) – Present Houghton, MI
<ul style="list-style-type: none">Annually conduct a project to create high-detail 3D models of large-scale snow sculptures at Michigan Tech's Winter Carnival via LiDAR scans. Manage data, software, and team resources from start to finish: acquisition, processing, and publishing.Conducted a project to document a historic building at the Quincy Smelting Works in Hancock, MI. Combined terrestrial laser scans with navigable virtual tours to provide a computerized, immersive experience. Used LiDAR data to produce high-accuracy architectural diagrams. Gave a presentation on our work and results at the 2023 Michigan Society of Professional Surveyors annual conference.	
Producer <i>Haslett Media Productions</i>	Jan. 2020 – Mar. 2020 Haslett, MI
<ul style="list-style-type: none">Edited stories, managed assets, directed control room operations, and anchored for the Haslett Media Productions semiweekly news program.Managed and revised visual assets. Created Photoshop scripts in JavaScript that allows editors to rapidly make graphics, such as lower thirds and weather forecasts.	

SKILLS

Computer Software — Experienced with common geospatial software packages: Autodesk AutoCAD Civil 3D, Trimble Business Center, RealityCapture, FARO SCENE, CloudCompare, ArcGIS, and common suites including Microsoft Office.

Software Development — Development of integrative web applications using Next.js and TypeScript. Extensive knowledge of Kotlin and the JVM ecosystem to create desktop applications.

CERTIFICATIONS & AWARDS

Part 107 Remote Pilot Certificate — *Federal Aviation Administration* — Issued June 2023.

Undergraduate Student Service Award — *Michigan Technological University* — Awarded April 2023.

Dean's List — *Michigan Technological University* — All semesters.

REFERENCES

Jeffery Hollingsworth, PS, GISP

Professor of Practice, Civil, Environmental, and Geospatial Engineering
Michigan Technological University
(906) 487-2445
jphollin@mtu.edu

Jeff has been my professor for the past two semesters and can attest to my work performance as a TA, interpersonal skills, and attitude towards learning.

Dane Pascoe, PS

President
KEBS, Inc.
(517) 339-1014
dpascoe@kebs.com

Dane was my employer for the past two summers. Under his direction, I have worked on multiple challenging projects, developing both surveying skills and technical proficiency.

Case VanderHeide

Survey Technician
SME
(616) 690-0596
cvanderh@mtu.edu

Case has been my peer at Michigan Tech for the past two years, and can speak to my knowledge of geospatial engineering and software development principles, and team leadership.