Landen Heine

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EDUCATION

University of Nebraska–Lincoln Lincoln, NE

B.S. Robotics Engineering; Minors in Business and Computer Science Expected May 2030

- Jeffrey S. Raikes School of Computer Science and Management: selective honors program (about 60 students a year) combining computer science, business and leadership
- Coursework: Computer Science I & II (Java), Innovation Process (Design Thinking), Linear Algebra

Scottsbluff High School · GPA 4.0 Scottsbluff, NE · 2022–2026

- Coursework: Multivariable Calculus, Computer Science (Java, C++, Python, SQL), Computer-Aided Drafting
- Published author: *Where Do Volcanoes Come From?* and *Renewable Energy* (Unite for Literacy)

PROJECTS

First Light · 1st Place, USDA AI Challenge, Hack Midwest 2026 Oct 2026

- Built features for a weather-driven facility-closure tool with a five-person team in a 24-hour hackathon (350+ participants)
- Ingests live National Weather Service, Iowa DOT and IEM data, recommends an OPM operating status, and generates staff notifications and a decision record · Python, React, TypeScript, Docker, Akamai Cloud

JavaLens · Java visualizer for teaching Nov 2026

- Shows the call stack, heap objects and references step by step as students type; re-runs live
- Published on the VS Code Marketplace and Open VSX, with installers for Windows, macOS and Linux built by GitHub Actions · Java, TypeScript, Gradle

pip · Raspberry Pi 5 voice assistant Nov 2026

- Household assistant with speech recognition, speaker recognition, timers, calendar and to-dos, and an animated on-screen face; specified with 100+ logged design decisions · Python

Personal builds 2025

- 3D-printed robot arm with a two-stage cycloidal shoulder and planetary base (Onshape, Inventor); Arduino Nano arcade with six games; 2-bit adder from discrete transistors; Conway's Game of Life in C for the NumWorks calculator, bit-packed to fit its memory

ROBOTICS

FIRST Tech Challenge Team 24759, Techno Tumbleweeds · Co-founder; Design & Programming Lead 2023–2026

- Designed most of the 2025–26 competition robot in CAD (turret shooter, mecanum drive); led a modular per-subsystem code architecture with autonomous path following, odometry and vision
- Inspire Award at two qualifiers; state championship Motivate Award (1st), Innovate and Think Awards (2nd); competed at two FIRST Premier Events

FIRST Tech Challenge Team 31985, Cyber Claws · Co-founder 2025–2026

- Secured funding and launched a new team at Scottsbluff High School; Think Award and Finalist alliance at the Nebraska State Championship in its rookie season

FIRST LEGO League (4-H) · 7 seasons · **UNL Lunabotics** · Docker, ROS 2

EXPERIENCE

PROTO Robotics · Curriculum & Web 2026

- Wrote robotics lessons and curriculum for elementary students and worked on the organization's website

OpenSky Drone Light Show & Fantasy Drone Shows · Drone Show Crew Member Summer 2026–Present

- Set up, deploy and recover drone fleets for shows across Nebraska under professional safety protocols

Scottsbluff Public Schools · IT Intern 2024–2025

- Diagnosed and repaired district Chromebooks and documented repairs and equipment records

SKILLS & HONORS

Programming: Java, Python, C/C++, TypeScript/JavaScript, SQL · Git, Linux, Docker, ROS 2, Android Studio, AI-assisted development

Engineering: Onshape, Fusion, Inventor, OpenSCAD, 3D printing, Arduino, Raspberry Pi, ESP32

Honors: SkillsUSA Related Technical Math: 1st in Nebraska (twice), 5th at nationals · **Languages:** Spanish (intermediate)