

# Edward Levandovsky

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## EDUCATION

### Northwest Nazarene University

Nampa, Idaho

*B.S. in Engineering, Electrical Engineering Concentration*

*Expected Dec. 2026*

- **Relevant Coursework:** Embedded Systems, Control Systems, Digital Systems, Mechanics and Materials, CAD and Prototyping

## PROFESSIONAL EXPERIENCE

### Precision Pumping Systems

Boise, Idaho

*Panel Wiring and Assembly Technician*

*Summers 2021 to 2024*

- Interpreted electrical schematics and wired industrial control panels for large pump systems.
- Troubleshoot wiring and assembly issues while helping improve panel layout and build efficiency.

### Landscaping Lab

Nampa, Idaho

*Co-Founder*

*2019 to Present*

- Managed estimates, customer communication, scheduling, and execution for landscaping projects.
- Designed and fabricated custom job aids using SolidWorks, 3D printing, and plasma cutting.

### Freelance Photography and Videography

Idaho

*Photographer and Videographer*

*2021 to Present*

- Captured and edited photography, video, and FPV drone footage using professional camera and post-production equipment.
- Built a local NAS storage system for centralized media storage, backup, and file management.

## PROJECTS

### SEL Distribution System Simulator | *Senior Design Project*

2025 to 2026

- Developed a portable distribution grid simulator for Schweitzer Engineering Laboratories using Raspberry Pi and Python to model reclosers, faults, and restoration behavior.
- Built an interactive touchscreen UI with step-by-step Normal, FLISR, and HDC simulations for demonstrations and training.

### Embedded Rail Cart Control System | *MSP430*

2025 to 2026

- Developed embedded C++ control software using joystick input and ultrasonic sensing for real-time cart position control.
- Implemented safety gating, watchdog behavior, and automatic distance control to maintain clearance from the user's hand.

### Autonomous LEGO Mindstorms Robot | *Robotics Programming*

2024

- Programmed an autonomous robot in Python to identify colored cups, navigate between locations, and place cups in assigned positions.
- **Won first place for highest cup detection and placement accuracy** during the final project competition.

### FPGA Digital Systems | *Vivado Verilog*

2024

- Designed Verilog logic for a reaction-time game and race stopwatch using Vivado with physical PCB-based inputs and outputs.

### Custom Truck Bumper Design and Fabrication | *SolidWorks, Fusion 360*

Personal Project

- Designed custom front and rear truck steel bumpers in SolidWorks and Fusion 360, then plasma cut and fabricated the assemblies from the original CAD designs.

## SKILLS

**Programming and Embedded:** Python, C++, C, Verilog, Raspberry Pi, MSP430, Arduino

**Engineering and Software:** SolidWorks, Fusion 360, MATLAB, Vivado, OpenAI Codex, Microsoft Excel

**Media and Systems:** DaVinci Resolve, Photoshop, Lightroom, NAS Storage, Basic Networking, FPV Drones

**Languages:** English, Russian, Ukrainian