

Marek Jablonski

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EDUCATION:

Iowa State University	GPA - 3.74
B.S. Computer Engineering	Expected - May 2025
M.E. Electrical/Computer Engineering	Expected - May 2026

WORK EXPERIENCE:

- **Electrical Engineer x2 @ Vermeer Pella, IA** May 2023 - August 2024
 - Designed electronic circuits and PCBs
 - Built programming fixtures from the ground up
 - Quickly prototyped MVP devices for future products
- **Software Engineer @ RACOM Marshalltown, IA** May 2022 - August 2022
 - Headed design effort on new Project
 - Communicated with Corporate and Clients for feedback
- **Web Developer @ Osis Inc. Marshalltown, IA** June 2020 - August 2021
 - Project lead of a new website framework currently in production

PROFESSIONAL EXPERIENCE:

- **Project Director @ PRISUM Solar Car** January 2024-Present
 - Organizing and leading a >150 Strong team
 - Large focus on improving management structure
 - Huge progress technically and organizationally
- **Systems Director @ PRISUM Solar Car** July 2022 - January 2024
 - Oversee technical operations of >50 team members
 - Manage short-term and multi-generational timelines
 - Coordinate inter-team discussions regarding complex vehicular systems
- **Electrical Team Member @ PRISUM Solar Car** August 2021 - July 2022
 - Developed circuit schematics and PCB designs with other members for important subsystems
 - Presented schematics and board designs at formal design reviews
 - Designer of critical control circuitry currently in use
 - Modeled several complex 3d-printed mounts for various driver interface devices

PERSONAL PROJECTS:

- Built basic CPU on Breadboards from elementary logic circuits
 - Designed architecture, layout, microcode, machine code language, and basic compiler
- Designer of prototype commercial battery monitoring system
 - Consolidates current modular designs into a more efficient form factor while not reducing the customizability and workability of the current system
- Creator of an annual Animated-to-music Christmas Light show
 - System design, construction, sequencing

TECHNICAL SKILLS:

- Ability to quickly understand high-level systems in detail
- Electrical Circuit and PCB Design
- Reverse-Engineering, Troubleshooting
- Linux environment, User Interface (UX), Virtual Machines, CAD, Computer Vision
- Building electromechanical systems to accomplish complex tasks

SOFTWARE SKILLS:

- Altium Designer, EasyEDA, Autodesk Inventor, Fusion 360, Solidworks, Eclipse, Git, LTspice
- Programming Languages: C, Java, JavaScript, PHP, Python, HTML, CSS, Verilog, VHDL