Marek Jablonski

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OBJECTIVE:

Looking for an internship or co-op for the summer of 2024 in Electrical or Computer Engineering

EDUCATION:

Iowa State University — Expected - May 2025
B.S. Computer Engineering — GPA - 3.78

National Merit Scholarship — Awarded - Spring 2021
Finalist & Scholar

WORK EXPERIENCE:

- **Electrical Engineer @ Vermeer Pella, IA** — May 2023 - August 2023
  - 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:

- **Systems Director @ PrISUm Solar Car** — July 2022 - Present
  - 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 of the vehicle including dashboard, motor protection, and motor control
  - 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:

- Creator of an annual Animated-to-music Christmas Light show (2016-present)
  - System design, construction, sequencing
- 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

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, VirtualBox, Tina Ti, LTspice
- Programming Languages: C, Java, JavaScript, PHP, Python, HTML, CSS, Verilog, VHDL