

# Andrew T. Krill

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- OBJECTIVE** To obtain an internship in the field of electrical/computer engineering, specifically in the fields of automation or robotics
- EDUCATION**
- University of Wisconsin-Milwaukee**  
Bachelor of Science in Computer Engineering, 2019  
Current GPA: 3.165
- Germantown High School**  
Graduated 2015  
GPA: 3.5
- SKILLS**
- Software:** AutoCAD, Autodesk Inventor, Multisim, Eagle PCB, LTSpice, KiCAD, Microsoft Office
- Programming:** Java, C, C++, HTML, CSS, PHP, JavaScript, Python
- Computer:** Networking, Firewalling, Troubleshooting, Repair
- Electronics:** AVR, PIC, and ARM Microcontrollers, Telemecanique PLC's, Analog and Digital Circuit Design, PCB layout and design
- Test Equipment:** Digital and Analog Oscilloscopes, Multimeters, Signal Analyzers
- Manufacturing:** Familiar with CNC Milling, Lathes, Metal Shop Equipment, 3D printing and additive manufacturing processes
- EXPERIENCE**
- No Small Magic – Milwaukee (2016 to present)**  
*Associate Electronics Engineer*  
PCB and electronics design  
Embedded and software programming
- Banner Welding – Germantown (2016)**  
*Controls Engineering Internship*  
Designed electrical and pneumatic controls  
Used AutoCAD for schematics and technical drawings  
Programmed PLCs and microcontrollers for cell automation and welding machines
- Systems, Inc. – Germantown (2015 to 2016)**  
*Electrical Engineering Internship*  
Designed control panels and harness wiring for dock leveling equipment  
Programmed PLC's for custom orders  
Drew and modified CAD drawings for special orders
- Ethoplex (Local Internet Service Provider) – Germantown (2014-2015)**  
*Installation and service technician*  
Installed, managed, and maintained datacenter equipment  
IT tech support and service  
Installed and set up radio equipment  
Routing and firewalling
- Cardinal Components – Menomonee Falls (2013-Current)**  
Quality Assurance and Product Inspection  
Product Rework  
Machine Operation

**TECHNICAL  
HOBBY &  
FREELANCE  
PROJECTS**

**CNC Etch-A-Sketch**

Built a CNC system to control an etch-a-sketch using an Atmel AVR microcontroller, stepper motors, and a G-code interpreter written in Java  
Designed a switch mode power supply to power the project  
Designed a PCB for this project  
Wrote a program in Java to interface with the Microcontroller via USB

**Robotic Arm Cat Toy**

Built a robotic arm out of laser cut plastic and servo motors with a laser diode and webcam at the end of it  
Programmed software and firmware  
Built and designed a web interface to control remotely

**Betty Brinn MLB Exhibit**

Designed and built the electrical, software, and firmware for a Betty Brinn exhibit  
Used Atmel ATmega328 microcontrollers, LM328 OpAmps,  
Motion tracking cameras and vibration sensors.