Colin Brady

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# Summary

Professional history includes a variety of disciplines that provide a broad scope of the design and production processes including customer relations, project management, team building, technical design and testing. Project oriented and a positive team player interested in and dedicated to using creative methods to solve industry and world problems.

# Education

## B.S. Mechanical engineering | Expected Graduation: 12/2019 | Washington University

* Major: Mechanical Engineering
* Focus: Mechanical Design
* Overall GPA: 3.1
* Engineering GPA: 3.4

# Skills & Abilities

## Training and Experience

* [Six Sigma Yellow Belt Certified](https://www.udemy.com/certificate/UC-MJGIKLGX/)
* [Six Sigma Green Belt Certified](https://www.udemy.com/certificate/UC-B337Q09N/)
* [Agile Project Management Certified](https://www.udemy.com/certificate/UC-0F80XIG6/)
* Optima Graphics: Laser Cutting Team Leader. In charge of running team meetings, Development and training for new procedures and designs.
* Ace Hardware: Department Manager. Responsible for maintaining inventory, customer service, and training of new employees on electrical and plumbing topics.

## Computer Skiils

* [SOLIDWORKS Certified](https://3dexperience.virtualtester.com/#home) (C-LD9RWPG5YB)
* Excellent skills in Microsoft Office (including Word, PowerPoint, Excel, Publisher, One Drive, and Outlook) Comfortable with Windows, Mac, and Linux operating systems.
* Proficient in Microsoft Project
* Basic programming skills with C++, Arduino, Python, Java.
* Typing Speed: 80-100 wpm
* Proficient with MATLAB, AutoCAD, Inventor, CaptureCIS, PSPICE, Pro-E, Autodesk, Blendr, CATIA, Creo, PTC Mathcad, Adobe Photoshop.
* Proficient with ANSYS, Simulink, and Solid Edge
* Some experience with Siemens NX

## Communication

* Excellent written and oral communication. 20+ years of public performance and public speaking experience. Education in technical writing, creative writing, and oral presentations including debate.

## Aditional Skills

* American Red Cross CPR/AED/First Aid certified, Hand drawing/Sketching/Graphic Art. Electrical Soldering. Breadboarding/Prototyping. Creative Thinking/Problem Solving. Experience with Electrical and mechanical tools. Excellent research skills and organizational skills.

# Experience

## Mechanical Engineer Co-Op | Nidec Motor Corp | 8/2018 - Present

* Electric motor design and testing, designed system for calibrating vibrational load cells, designed testing fixtures for motor component fatigue tests, assisted application engineers with performance and stability tests of new motor models. Engineering change orders (ECO) and engineering drawing markups.

## Music Teacher/Repair Technician | Bisco | 06/2008 – 8/2018

* Private music lessons and group classes, curriculum writing music writing and organized performances, used problem solving methods and specialized tools to repair musical instruments and develop methods to improve instrument quality, performance and public speaking to large and small scale audiences, time management, organization, and presentation experience.

## Laser Cutting Operator | Optima Graphics | 08/2006-06/2008

* Designed cutting patterns and made detailed measurements of structures. Operated large laser cutting machine. Manufacturing and assembly of promotional displays. Ran team meeting and trained new employees. Assisted in the design of new graphics display systems. Consulted with customers to offer creative solutions.

## Department Manager | Ace Hardware | 02/2005 - 07/2006

. Oversee and maintain inventory for plumbing and electrical departments. Used machinery including glass cutter, circular saw, wood planar, key cutting machine, misc. power tools. Assisted customers and staff with electrical and plumbing projects. Trained new employees and cross trained existing employees with electrical and plumbing department information.