

# Colin Hale-Brown

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## OBJECTIVE

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Obtain a position in the field of engineering and design. Assist a team to iterate and design effective solutions to complex problems.

## SKILLS

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|---|---|
| • <b>Computer Aided Design (CAD)</b>      | Solidworks, Fusion 350, Autodesk Inventor |
| • <b>Computer Aided Engineering (CAE)</b> | Solidworks, Fusion 350, Autodesk Inventor |
| • <b>Programming Languages</b>            | Python, Java, C#, MySQL, Web Design       |
| • <b>Electronics</b>                      | Sensors, Motors, Arduino, Raspberry Pi    |
| • <b>Machining &amp; Welding</b>          | Steel, Aluminum                           |
| • <b>Woodworking</b>                      |   |
| • <b>CNC</b>                              | 3D Printer, Router                        |
| • <b>Applied Engineering</b>              |   |
| • <b>CPR &amp; First Aid Certified</b>    | Infant, child, and adult                  |

## EXPERIENCE

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|--|---------------------------|
| <b>Pigmice Robotics #2733, Design Captain</b>  | May 2018 - Present        |
| • Oversee all design, CAD, CAM and CAE for the 2018-2019 robotics season                                   |                           |
| <b>Team Lead</b>   | September 2017 - May 2018 |
| • Project managed the design and manufacturing of the robot for the FIRST Power Up robotics challenge      |                           |
| <b>CAD Lead</b>  | September 2015 - May 2018 |
| • Designed and CAD modeled the robot for the FIRST Stronghold, Steamworks, and Power Up robotic challenges |                           |
| <b>Camp Westwind, Unit Assistant</b>   | June 2018 - August 2018   |
| • Assisted unit coordinator in supervising, activity programming, and entertaining campers                 |                           |

## SUPPORTING EXPERIENCE

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|---|------------------|
| <b>Explorers Robotics, Scouts Instructor</b>      | 2015 - Present   |
| <b>OMSI Maker Faire, FIRST Robotics Presenter</b> | 2016, 2017, 2018 |
| <b>Outdoor School, Student Leader</b>             | 2017             |
| <b>Runner2Runner, Youth Coach</b>                 | 2016, 2018       |

## ACHIEVEMENTS

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|---|--------------------|
| <b>Engineering Inspiration Award, Lake Oswego</b>   | 2018               |
| <b>National Honor Society</b>   | May 2017 - Present |
| <b>Featured Design on Instructables</b>   | June 2017          |
| • <a href="https://www.instructables.com/id/Universal-Arduino-Controller/">https://www.instructables.com/id/Universal-Arduino-Controller/</a> |                    |

## EDUCATION

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|------------------------------|---------------------|
| <b>Cleveland High School</b> | Expected June 2019  |
| <b>CAD Operator (PCC)</b>    | Expected March 2019 |