# Jared Homer

Mechatronics Engineer with four and a half years of experience working with electrical CAD drawings and optimizing low voltage systems for cost and reliability. Strong expertise in mechanical, electrical, and software design and troubleshooting. Worked full time through most of college. 4959 Day Lily Way Acworth, GA 30102 (404) 988 2631 jaredhomer99@gmail.com

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#### SKILLS

Programming with C/C++, C#, javascript, java, MATLAB, python, and Siemens PLC.

Working with CAD/CAM Software such as AutoCAD, Solidworks/Inventor, Blender, Fusion360, EstlCAM, No Limits 2, and Unity3D.

Working with source control such as Perforce or GIT.

Linux development, including server hosting, network configuration, and ROS.

Operation of Cartesian Coordinate Robots such as CNC Machines, Waterjets, and 3D Printers.

Troubleshooting and repairing electrical systems using an Oscilloscope/DMM.

Integrating sensor inputs into control systems, such as LiDAR, sonar, accelerometer, GPS, or P.I.N.D.A.

Works well in a team environment, with above average problem solving abilities.

#### EXPERIENCE

## Cana Communications, Kennesaw, GA — Junior CAD Drafter

Part Time: August 2015 - February 2018 Full Time: March 2018 - February 2020

Responsible for researching, designing, and engineering documents for low voltage systems utilizing Computer Aided Design (CAD) knowledge and vendor materials.

Working with systems including Fire Alarm, Intercom, Voice/Data, Security/Intrusion, Nurse Call, Access Control, and Mass Notification.

Roughly 35 different engineering projects a year.

February 2018: Worked in the IT department helping with sharepoint configuration and helpdesk support for external clients.

# Kell Robotics, Kennesaw, GA — Student Team Member

kellrobotics.org June 2013 - May 2017 Student member of FRC Hall of Fame Team Kell Robotics.

Worked on robot programming in java, design in Inventor/Solidworks, and fabrication, including operation of a waterjet.

FIRST Robotics Dean's List Award Semifinalist - 2015

# Kennesaw State University — Mechatronics Engineering

August 2017 - December 2020 Spring 2018 Dean's List, Major GPA of 3.3

### **PROJECTS AND HOBBIES**

Fabricated a CNC Machine with 3D printed parts and custom firmware.

Participant in a week long "Game Jam", where my partner and I had a week to develop and publish a video game. (https://kitchensynk.itch.io/)

Python/MATLAB programs for machine learning and computer vision applications, utilizing both shallow and deep neural networks.