**Andrew Kane**

**630-740-4156**

**AndrewPeterKane@gmail.com**

**SUMMARY**

Programmer and mechanical designer with a strong science background and good writing skills. Accomplished inventor with exceptional mechanical intuition and broad prototyping and fabrication skills.

**TECHNICAL EXPERIENCE**

Worked in a mechanical design capacity for five years at a company that builds custom manufacturing and development machines that wind wire, cable, and similar materials for a variety of medical and industrial applications. Worked for combined two years in an electronics technician capacity, including surface mount / pin mount soldering, panel wiring, troubleshooting, and oscilloscope use. Designed, sold, and published build instructions for Nerf-like toy guns for adults along with uniquely safe ammunition for their use. See [www.MostlyHarmlessArms.com](http://www.mostlyharmlessarms.com/) for more information.

**EDUCATION**

B.A. Physics, Lawrence University

B.A. Philosophy, Lawrence University.

**TECHNICAL SKILLS**

3d modeling / CAD (Solidworks and Autodesk Inventor)

Mechanical Design

Machine tool use including mills and lathes.

CNC Machine tool operation & G-code

Soldering and electronics assembly including surface mount components.

3d Printing with a Reprap Prusa

Soldering and electronics assembly including surface mount components.

HTML and Javascript web development including node.js and socket.io

Experience with Javascript, C++, Fortran, Python, Excel, IDL, LaTex, and BASIC

**WORK HISTORY**

*Social Worker,* Hope Human Services, August-October 2020

*CNC Machine Operator,* HardKore Productions, October 2015-present

*CNC Machine Operator,* GKN Waltersheid, May-July 2015

*Electronics Technician,* Silicon Engines, September 2014-April 2015

*Electronics Technician,* Peerless AV, May 2014-December 2014

*Mechanical Designer*, Machine Control Specialists, December 2008 -January 2014

*Soldering / Electronics Assembly Tech*, Machine Control Specialists, Sept. 2008-July 2009

*REU Intern*, University of Minnesota Civil Engineering Department (concrete materials testing research), Summer 2007

*Cashier*, Wendy’s, Summers 2004-2006