

Andrew Kane
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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 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 Walterscheid, 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