

DAN CHRISTENSEN

ENGINEER/CHAMELEON

605-890-0628
hello.dcdesigns@gmail.com
Candler, NC 28715

WHAT I'VE DONE

CUSTOM SOFTWARE/ HARDWARE

Nov 2014-Present

CUSTOM DESIGN/ CRAFTSMAN

Dec 2012-Present

DESIGN ENGINEER

Sept 2007-May 2009

WHERE I LEARNED THINGS

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY

Aug 2003-May 2007

MINNESOTA SCHOOL OF PIANO TECHNOLOGY

Sept 2008-Nov 2008

METROPOLITAN STATE UNIVERSITY OF DENVER

Dec 2009-Dec 2012

MY SPECIFIC SKILLS

- Proactively learning and growing skills for any given project
- Seeing obstacles and unknowns as puzzles to be solved
- Working with microcontrollers: **Arduino/Teensy/Axolotl Core**
- Programming: **C/JavaScript/VBA**
- Circuit board design: **KiCad**
- CAD/CAM: **SolidWorks, Fusion 360, using a CNC router**
- Fabrication using various materials
- Building quick mockups to test ideas (both physical and virtual)
- Photo/Document editing: **Photoshop/Inkscape/MS Office**

MOST RELEVANT SKILL

Quick-learning chameleon

As an example, I started with almost no experience coding in Excel, but delivered a program powerful enough to impress my client's own IT department.

INDEPENDENT CONTRACTOR (NC,CO)

Work closely with clients to provide custom creative and unique solutions, including designing and building interactive signage along New Belgium's tour route, coding a cubic spline interpolator for a developing snowboard game, and creating complex Excel Workbooks for custom data and reporting solutions.



Hands-on dexterity

Working with power and hand tools, building custom jigs, and achieving precision.

NEXEN GROUP, INC. (MN)

Performed engineering changes, customized existing products, and designed new products. This involved creating and editing 3D/2D models and drawings, performing mathematical and FEA analysis, building and testing prototypes, and writing product specifications.



Working with a team

Coordinating with other engineers and departments to complete complex projects and tasks in an effective and timely manner.

MECHANICAL ENGINEERING (BSME)

I completed various math, physics, circuits, mechatronics, and programming courses. Above all, I learned universal skills of problem solving and the ability to quickly learn and absorb new tools into my engineering toolbox.

PIANO TUNING AND REPAIR

Hands-on instruction in maintaining, repairing, and tuning pianos (Defebaugh tuning method).

MUSIC COMPOSITION

Music theory, notation, ear training, arranging, writing for specific instruments, cello performance, basic playing skills for strings, woodwinds, brass, and percussion.

MY INTERESTS/HOBBIES

Synthesizers I'm building an eight-voice polyphonic synthesizer on a microcontroller. My current build has about 4,500 lines of code.

Playing cello and piano

Rock climbing, biking

Puzzle games One of my favorites is *The Witness*.

Combining my interests across fields in weird projects

On any given day I might sketch out designs, code physics equations, work with power tools, or create wind sounds for a video game, and I love that variety.

Cooking Usually involving spicy peppers and cheese.