

## David Hartkop Resume

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### **SUMMARY OF SKILLS**

PLC ladder logic, industrial electronics troubleshooting, photovoltaic system design, micro-controller electronics and firmware, video editing with Adobe Premiere Pro, Adobe After Effects, Photoshop, Illustrator, InDesign, Lightwave 3D, Cinema 4D, PF Track, Microsoft Office Applications, Cinematography (35mm film, 16mm film, DSLR), Digital motion control systems, Video & Film Production Management.

### **PROFESSIONAL EXPERIENCE**

#### Technical / Engineering

Mini Metal Maker LLC 2014-2017

Design engineer for 3D printer product. Involved CAD, prototyping, firmware development, hardware integration, manufacture and troubleshooting. As part of my work at Mini Metal Maker, I also handle service calls from customers as required.

Pueblo City-County Library district 2014-2016

Worked as technology trainer training staff and patrons in use of 3D printers, multimedia software, and creative technologies. I also serviced the district's additive manufacturing devices and contributed to the software selection and purchasing cycle for the district.

Solar Roast Coffee LLC 2004-2015

Managed design, construction, installation and maintenance of commercial coffee roasting systems, including PLC, solid state power control systems, airflow, and process heating.

#### Marketing & Multimedia

Pueblo City-County Library District E-Marketing Coordinator April 2012 to 2014

Solar Roast Coffee LLC Marketing Department 2004-2013

Create press releases for local and national media, see Popular Science May 2011 p.82.

#### Teaching Experience

Pueblo City-County Library District Technology Trainer, teaching computer usage and resources. 2014-2016 Contact: Carol Rooney

Rogue Community College Department of Computer Science Part Time Faculty, teaching Computer Graphic Design and Introductory Computer Labs. 2006-2007 Contact: Mark Boney

Loyola Marymount University Department of Communications and Fine Arts Teaching Assistant, and Labs for Introductory Cinematography, 1998-2000

Contact: Professor John Stewart, Howard Lavick.

#### Publications

See attached sheet

### **EDUCATION**

Loyola Marymount University Los Angeles, CA. Bachelor of the Arts, Emphasis in Film Production. Graduated Magna Cum Laude May 2000. GPA 3.75

DAVID HARTKOP - PUBLICATIONS

Patents

Pub. No.: US 2005/0264560 A1

METHOD FOR FORMATING IMAGES FOR ANGLE-SPECIFIC VIEWING IN A SCANNING APERTURE DISPLAY DEVICE

Patent NO.: US 7,573,491 B2

METHOD FOR FORMATTING IMAGES FOR ANGLE-SPECIFIC VIEWING IN A SCANNING APERTURE DISPLAY DEVICE

Pub. No.: US 2005/0219693 A1

SCANNING APERTURE THREE DIMENSIONAL DISPLAY DEVICE

Pub. No.: US 2005/0280894 A1

APPARATUS FOR CREATING A SCANNING-COLUMN BACKLIGHT IN A SCANNING APERTURE DISPLAY DEVICE

Pub. No.: US 2007/0002130 A1

METHOD AND APPARATUS FOR MAINTAINING EYE CONTACT DURING PERSON-TO-PERSON VIDEO TELECOMMUNICATION

Pub. No.: US 2007/0033828 A1

METHOD AND APPARATUS FOR ROASTING COFFEE BEANS BY MEANS OF CONCENTRATED SOLAR THERMAL ENERGY

Pub. No.: US 2017/0334579 A1

MULTI SENSOR SUPPORT STRUCTURE

Books

Create your own RepRap Libro Open Source 3D Printer

ISBN 978-0-9838571-1-2, 2015

Build Your Own Mini Metal Maker

ISBN 9781530772674, 2016

Create Your Own TIME LAPSE CAMERA RAIL

ISBN 9781975604462, 2017

Open Source

"Presenting the APOCALYPSE ENGINE"

A residential scale biomass stirling engine

<https://www.ideapropulsionsystems.com/idea-propulsion-systems/2017/11/10/presenting-the-apocalypse-engine>

"DIY high altitude balloon launch"

How to conduct your own high-altitude balloon launch

<https://www.ideapropulsionsystems.com/idea-propulsion-systems/2017/2/8/diy-high-altitude-balloon-launch>

"The Libro-Struder filament pushing monster"

A friction-based 3D printable filament extrusion device

<https://www.ideapropulsionsystems.com/idea-propulsion-systems/2017/2/2/librostruder1>

"Experimental 3D Printable Nema 17 Stepper Motor"

How to create a stepper motor with your printer and hardware store parts

<https://www.ideapropulsionsystems.com/idea-propulsion-systems/2017/1/19/experimental-3d-printed-stepper-motor>