EXPERIENCE

Owner   July 2022 – Present
ORCHIDSITTER - North Wales, PA - orchidsitter.com
+ Development and incubation of business centered on plant care, specifically orchids
+ Design and development of hardware circuitry, website and mobile apps for plant care
+ Exploring how focused AI could be trained with data to develop care solutions long term

New Media Specialist   August 2015 – Present
SPRINGSIDE CHESTNUT HILL ACADEMY - Philadelphia, PA - sch.org
+ Created unique integrated digital fabrication classes and projects for Pre-K through 5
+ Focused on design, programming, circuit building and digital fabrication skills
+ Provided ad hoc training to teachers in digital fabrication competencies
+ Advised the design and direction of the Fablab and maintained all machines

Co-Founder   August 2014 – 2017
FABLAB BHUTAN - Thimphu, Bhutan - fablab.bt
+ Worked with MIT, Solidworks & the Bhutan team to establish Bhutan's First Fablab launched in 2017
+ Announced Bhutan's country commitment to the Fab City initiative at FAB12 in Shenzen, China 2016
+ Advised in selection of the lab location, physical lab layout, design and public engagement
+ Advised the Prime Minister of Bhutan and His Majesty's Secretariat Offices in regards to the lab

IT Infrastructure + Curriculum Advisor   August 2013 – August 2014
THE ROYAL ACADEMY - Thimphu, Bhutan - academy.bt
+ Supported office ICT infrastructure including networking + computers
+ Designed and developed ICT infrastructure, classroom technologies plus those focused on creative arts
+ Designed and implemented websites using Wordpress, PHP, MySQL, HTML, JavaScript, CSS
+ Taught workshops in circuit building

Artist + Technologist   January 2004 – January 2015
DAVIDCOOL.COM - Monterey, CA - davidcool.com
+ Engaged projects centered on creative clients
+ Designed and implemented websites using Wordpress, PHP, MySQL, HTML, JavaScript, CSS
+ Explored generative art programming, interactive installation and public exhibition venues
+ Focused on Arduino, Processing and interaction design

Digital Media Instructor   August 2011 – June 2012
UNIVERSITY OF CONNECTICUT - Storrs, CT - digitalarts.uconn.edu
+ Co-designed and implemented the first Physical Computing class
+ Co-designed and implemented the first Digital Media class

Web Developer   August 2010 – June 2011
UNIVERSITY OF CONNECTICUT - Storrs, CT - art.uconn.edu
+ Co-conceptualized, designed and developed the art school web portal
+ Implemented a custom CMS system integrating WordPress, ZenPhoto and Google calendar
+ Created website video training tutorials for faculty, staff and students

Technology Advisor + Digital Media Instructor   April 2009 – July 2009
UGYEN WANGCHUCK INSTITUTE for CONSERVATION & ENVIRONMENT - Bumthang, Bhutan - uwice.gov.bt
+ Designed and developed networking infrastructure
+ Designed and implemented institute website using Flash, PHP, MySQL, HTML, JavaScript, CSS
+ Taught photography, blogging and basic computer instruction courses
+ Coordinated and met government officials for infrastructure development projects

DAVID COOL
artist + technologist
724   469   0542
david@davidcool.com

7001 McCallum St
Philadelphia, PA
19119-3055
UNITED STATES

"Hardness and strength are death's companions, pliancy and weakness are expressions of the freshness of being.

+ Andrei Tarkovsky

TEFL English Teacher   February 2008 – February 2009
I KIDS' PARK ENGLISH ACADEMY - Seogwipo, Jeju, South Korea
+ Taught Kindergarten through Middle School level classes
+ Created course materials including tests, audio samples and student videos
+ Prepared syllabi, report cards and lesson plans
+ Taught phonics and reading courses
+ Led large group activities including songs, games and movies

Owner + Web Developer   January 2002 – January 2008
INFLOW PRODUCTIONS - Monterey, CA - inflow.ws
+ Engaged projects centered on creative clients
+ Designed and implemented websites using Flash, PHP, MySQL, HTML, JavaScript, CSS
+ Focused on hand coding and UNIX/LINUX environments
+ Utilized professional photography and videography skills

Systems Engineer + Web Developer   September 2002 – March 2007
BACKSCATTER UNDERWATER PHOTO & VIDEO - Monterey, CA - backscatter.com
+ Created and maintained retail shopping website using Lasso, PHP, HTML and MySQL
+ Designed and managed Mac and PC network including all backup systems
+ Managed website sales process and created custom Filemaker CRM platform
+ Instructed clients in underwater photography and video

Web Developer + Steering Committee Member   April 2006 – December 2006
GLOBAL MAJORITY - Monterey, CA - globalmajority.org
+ Volunteered to manage and develop website and related infrastructure
+ Updated current website information and functionality
+ Developed and deployed a new CMS for global communication
+ Redesigned look and feel of site with focus on user experience and information flow

Deskside Support Manager   May 1999 – December 2001
JP MORGAN CHASE & CO. - San Francisco, CA - jpmorgan.com
+ Managed all desktop computer operations consisting of 1000+ investment banking clients
+ Planned, implemented and supported technology needs for North American branch offices
+ Oversaw twenty level 2 technical support analysts in three locations
+ Led project management for specific business driven technology implementations

Deskside Support Lead + Trainer   Jan 1998 – April 1999
MOVE.COM - San Francisco, CA - move.com
+ Led technical support initiatives for both networking and telecommunications
+ Trained new technical support staff and held classes for new employees on use of technology
+ Supported technology needs of 200+ users

Instructor for Office of Student Retention   January 1997 – January 1998
CALIFORNIA UNIVERSITY of PENNSYLVANIA - California, PA - calu.edu
+ Taught classes as part of graduate assistance ship with the Office of Student Retention
+ Held student counseling sessions to assess student needs and help develop student goals
+ Worked with director to quantify student achievement and recommend courses of action

Student Instructor   August 1994 – June 1996
PENNSYLVANIA STATE UNIVERSITY - University Park, PA - psu.edu
+ Assisted with introductory & zone system photography classes
+ Worked at two university darkrooms

SOFT SKILLS

+ Thrives in leadership positions
+ Blue sky thinker that can translate ideas into reality
+ A natural ability to mentor and empower team members
+ Loves to collaborate on projects so team members can apply their specific skills and passions
+ Continuous self-learning and experimentation to envision future program directions
+ Extensive international experience with a great openess and respect for cultures and customs
+ Adept at discerning student learning style/level and adjusting curriculum/teaching style to fit
+ Excels at transforming complex information into stratified curriculum for specific ages/abilities

HARD SKILLS

+ Mac & Windows OS
+ Linux + Apache + MySQL

+ HTML + CSS
+ PHP + Javascript + Python
+ Processing + MaxMSP
+ C + Java
+ Scratch

+ SolidWorks
+ Fusion 360
+ Rhinoceros

+ Adobe Creative Suite
+ Final Cut Pro + Logic Pro
+ Remote Desktop
+ Parallels / VMware

+ Digital Fabrication
+ 3D Printers
+ Laser Cutters
+ Vinyl Cutters
+ CNC Machines
+ Molding & Casting
+ Digital Embroidery

+ Extensive hardware knowledge
+ Switch & router configuration
+ Network cabling

+ Digital imaging & video
+ Digital audio production
+ Modular Synthesis
+ Muisc Production

+ Arduino & micro-controllers
+ Circuit building
+ Electronics soldering

EDUCATION & TRAINING

Digital Fabrication Training   2017-2018
NEXTFAB - Philadelphia, PA

Apple Teacher + Apple Swift Playgrounds Teacher Certified   2018
SCH ACADEMY - Philadelphia, PA

Master of Fine Arts in Digital Media + Installation   2010 – 2012
UNIVERSITY of CONNECTICUT - Storrs, CT

LADO TEFL Certificate   2007
LADO ENTERPRISES INC. - Washington, DC

Unix System Administration   2004
MONTEREY PENINSULA COLLEGE - Monterey, CA

Ninth House Networks Situational Leadership   2001
JP MORGAN CHASE & CO. - San Francisco, CA

Project Management Training   2000
JP MORGAN CHASE & CO. - San Francisco, CA

Information Technology Program   2000
SAN FRANCISCO STATE UNIVERSITY - San Francisco, CA

Graduate Study in English Literature   1997
CALIFORNIA UNIVERSITY of PENNSYLVANIA - California, PA

Bachelor of Arts in Integrative Arts   1992 – 1996
PENNSYLVANIA STATE UNIVERSITY - State College, PA

EXHIBITIONS

Group Exhibition   2016-2018
CRAWFORD ART GALLERY - Philadelphia, PA

Do Not Disconnect   2012
SOHO20 GALLERY - New York, NY

Do Not Disconnect   2012
The BENTON MUSEUM - Storrs, CT

New Work!   2011
ARENA GALLERY - Storrs, CT

CAA Annual MFA Exhibition   2011
TIMES SQUARE GALLERY - New York, NY

Fresh Fish   2010
STUDENT UNION GALLERY - Storrs, CT

Experimental Short Film Festival   2003
San Francisco, CA

Group Exhibition   2001
ARC GALLERY - Chicago, IL

Solo Photography Exhibition   1997
CALIFORNIA STATE UNIVERSITY - California, PA

Solo Photography Exhibition   1997
PATTERSON GALLERY - University Park, PA

Group Photography Exhibition   1996
PATTERSON GALLERY - University Park, PA

AWARDS

Agnes & Sophie Dallas Irwin Travel Grant   2016
SCH ACADEMY - Philadelphia, PA
+ Awarded this travel funding to pursue personal interests related to digital fabrication

The Thomas Sayre Ambler Faculty Enrichment Award   2016
SCH ACADEMY - Philadelphia, PA
+ Awarded travel funding to Thailand, Bhutan and China for projects related to digital fabrication

Greene Travel Fellowship   2012
UNIVERSITY of CONNECTICUT - Storrs, CT
+ Awarded travel funding to Copenhagen and Stockholm to research and develop an interaction design project

Graduate Fellowship   2010 – 2012
UNIVERSITY of CONNECTICUT - Storrs, CT
+ Awarded full tuition waiver and graduate assistantship

Travel Grant   2011
UNIVERSITY of CONNECTICUT - Storrs, CT
+ Awarded a travel grant to attend a retreat with vocalist David Hykes at the Esalen Institute

English Scholarship   1997
CALIFORNIA UNIVERSITY of CALIFORNIA - California, PA
+ Awarded a full scholarship for English graduate school studies

Leslie P. Greenhill Photography Award   1995
PENNSYLVANIA STATE UNIVERSITY - University Park, PA
+ Competitive monetary award given to third year photography students
+ One photograph was purchased for the Greenhill collection

Atherton Hall Photography Club   1994
PENNSYLVANIA STATE UNIVERSITY - University Park, PA
+ Awarded working budget for materials and supplies to start and run honors hall darkroom
+ President of photography club for two years

INTERESTS

+ Making things, generative music, traveling, running, mountain biking, scuba diving