

## EXPERIENCE

### **New Media Specialist** August 2015 – September 2021

SPRINGSIDE CHESTNUT HILL ACADEMY - Philadelphia, PA - sch.org

- + Created unique integrated digital fabrication classes and projects for Pre-K through 8
- + 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 Shenzhen, 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

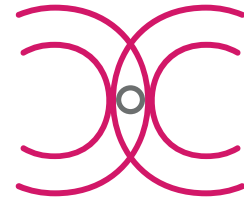
UGYEN WANGCHUCK INSTITUTE for CONSERVATION & ENVIRONMENT - Bumthang, Bhutan - uvice.gov.bt

- + 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

### **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



## DAVID COOL

artist + technologist

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UNITED STATES

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

+ Andrei Tarkovsky

**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 openness 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
- + Logic Pro + Ableton Live
- + Remote Desktop
- + Virtual Machines
- + Digital Fabrication
- + 3D Printers
- + Laser Cutters
- + Vinyl Cutters
- + CNC Machines
- + Molding & Casting
- + Digital Embroidery
- + Extensive hardware knowledge
- + Switch & router configuration
- + Network cabling
- + Digital audio & imaging & video
- + Advanced OBS & streaming
- + Modular Synthesis
- + Music Production
- + Arduino & micro-controllers
- + Circuit prototyping
- + 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 Workshop** 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

**Experimental Short Film Festival** 2003  
San Francisco, CA

**Do Not Disconnect** 2012  
SOHO20 GALLERY - New York, NY

**Group Exhibition** 2001  
ARC GALLERY - Chicago, IL

**Do Not Disconnect** 2012  
The BENTON MUSEUM - Storrs, CT

**Solo Photography Exhibition** 1997  
CALIFORNIA STATE UNIVERSITY - California, PA

**New Work!** 2011  
ARENA GALLERY - Storrs, CT

**Solo Photography Exhibition** 1997  
PATTERSON GALLERY - University Park, PA

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

**Group Photography Exhibition** 1996  
PATTERSON GALLERY - University Park, PA

**Fresh Fish** 2010  
STUDENT UNION GALLERY - Storrs, CT

## 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 PENNSYLVANIA - 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 ran honors hall darkroom  
+ President of photography club for two years

## INTERESTS

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