

Richard Elaver

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Objective

Continue exploring the overlaps of art, design, and craft while integrating traditional and digital technologies in research, design development, and education.

Profile

Designer

- Experienced in the design of medical equipment, consumer products, sporting goods, & furniture
- Strong skills in creative problem-solving, ideation, design conceptualization, & illustration
- Project Management experience including proposal writing, budgeting, human resource management and client interface
- Experience in design for manufacturing, CAD/CAM, model making, and technical sculpture
- Software experience: Rhino3D, Grasshopper, Zbrush, VisualMill, Photoshop, Illustrator, InDesign

Artist

- Professional experience as studio artist, production jeweler, and blacksmith
- Strong exhibition record, as well as experience in exhibition design and curation
- Proficient with a broad range of traditional studio techniques, including metal fabrication, woodworking, clay modeling, mold making, casting, and machining
- In-depth experience with the integration of digital methods in creative process, including CNC operation, rapid prototyping, 3D printing, and laser-cutting

Educator

- Broad experience teaching diverse subject matter, from design thinking to blacksmithing
- Experience in curriculum development, including program design, course proposals/outlines, planning syllabi, and structuring material for varied levels
- Effective committee participation and leadership, from department to University level
- Strong interpersonal skills working with students, faculty, staff, and administration
- Successful in grant-writing for advanced research

Education

Masters courses in Art History 8/05 – 1/06
Universiteit Leiden Leiden, Netherlands

- Funded by Fulbright Fellowship
- Completed courses in History of the Applied Arts
- Independent research in history of craft and design

Master of Fine Arts 6/2005
Cranbrook Academy of Art Bloomfield Hills, MI

- Albert and Peggy Desalle Merit scholarship, 2004
- DeRoy Foundation Merit Scholarship, 2003

Bachelor of Science in Art 6/1999
University of Wisconsin Madison, WI

- Undergraduate Senior Research Fellow
- Hildale Foundation Undergraduate Research Fellow

Teaching Experience

Associate Professor of Industrial Design 8/15 - present
Appalachian State University Boone, NC

- Department of Applied Design
- Developed and co-lead of AppLab and Innovation & Design Cooperative, 2017-19
 - Lead international education experiences in France, Belgium, and the Netherlands
 - Faculty Senate Representative, Fall 2018-2021
 - Coordinator of Industrial Design Program, 2014-2016
 - Teach beginning to advanced undergraduate courses in Industrial Design

Assistant Professor of Industrial Design 8/10 – 7/15
Appalachian State University Boone, NC

- Department of Technology & Environmental Design
- Managed Digital Fabrication lab, 2012-2014

- Visual Literacy Coordinator, 2011-2013
- Curriculum development and new course design

Assistant Professor of Design 9/06 – 8/10
Purdue Fort Wayne Fort Wayne, IN

- Taught beginning and advanced design & 3D modeling courses
- Curriculum development and new course design, including online courses
- Foundations Coordinator, 2008-2010
- Department Representative in University Senate, 2007-2010
- Chair of College Technology Committee 2007-2008

Design Instructor Summer, 2007
Kendall College of Art and Design Grand Rapids, MI

- Developed and taught interdisciplinary course: Bio-Digital Design

Blacksmithing Instructor 2000 - 2003
Madison Area Technical College Madison, WI

- Developed and taught beginning and advanced courses in Blacksmithing
- Managed studio, equipment, and inventory

Professional Experience

Designer & Owner 2005 - present
Designer Craftsman, LLC Boone, NC

- Freelance design consulting and independent product development
- Product design for licensing: developed Joinks toy design, 2014

Designer 12/05 - 11/06
Droog Design Amsterdam, Netherlands

- Exhibit design, product design, model-making, CAD modeling
- Oversaw installation of traveling international exhibition in Belgium and US
- Communications between designers, manufacturers, and curators
- Created installation manuals for international traveling exhibitions

Furniture Designer 5/04 - 10/04
Scott Klinker Designs Bloomfield Hills, MI

- Design conceptualization, CAD modeling, prototype building

Product Designer 9/00 - 9/03
Design Concepts, Inc Madison, WI

- Concept development, from sketches to production
- Interdisciplinary design process with researchers, engineers, and model-makers
- Project management and regular client interface

Professional Involvement

Watauga County Arts Council – Board Member 10/10 – 5/12
Regional arts council Boone, NC

Siggraph 2011 9/10 – 8/11
Art Exhibition Subcommittee Member Vancouver, BC, Canada

Siggraph 2010 9/09 – 8/10
Art Exhibition Chair Los Angeles, CA

CADlaboration 11/07 – 6/10
Contributing Member Philadelphia, PA

Workshops Taught

Introduction to Grasshopper 8/21
Pocosin Arts Center for Fine Craft Columbia, NC
Three-week workshop introducing jewelers to procedural modeling in Grasshopper (online)

Making a Spectacle 7/21
Penland School of Crafts Penland, NC
Two-week craft-based workshop in metalsmithing studio
Taught handcraft and digital processes for making custom eyeglass frames

Teaching Visual Design Courses Online 9/10/2020
VIA University College Herning, Denmark
Group workshop presented by Design Sketching SIG at EPDE International Conference (online)
Led session on using VoiceThread software for asynchronous design reviews

Modular Organic Building Systems 9/14
Miami University Oxford, OH
Multi-disciplinary workshop involving students in Experience Design, Architecture, and Art
Integration of 3D modeling and rapid-manufacturing for a three-day team-based workshop

FlexiFun: A Night of Creative Construction 8/2014
National Museum of Mathematics NY, NY

Making Eyeglasses 7/12
Penland School of Crafts Penland, NC
Two-week craft-based workshop in metalsmithing studio
Taught traditional and digital processes for making eyeglasses

Building Organic Forms in Rhino3D 2/28/11
Winthrop University Rock Hill, SC

Modular Organic Building Systems 9/11
Miami University Oxford, OH
Multi-disciplinary workshop involving students in engineering, architecture, and art
Integration of 3D modeling and rapid-manufacturing for a three-day team-based workshop

Toolmaking for Chasing & Repousse 7/11
Penland School of Crafts Penland, NC
Two-week craft-based workshop in metalsmithing studio
Taught traditional and digital processes, focusing on hand-made steel tools

Scripting in Rhino 3D 4/09
Massachusetts College of Art & Design Boston, MA
One-day workshop with students on Scripting in Rhino3D Software

**Presentations
& Lectures**

Engineering & Product Design Education, 23rd Int'l Conference 9/11/2021
Title: *Teaching Product Design Through an Online Illustrated Interface* Herning, Denmark
VIA University College (online)

Engineering & Product Design Education, 22nd Int'l Conference 9/11/2020
Title: *Design in Context* Herning, Denmark
VIA University College (online)

Engineering & Product Design Education, 21st Int'l Conference 9/13/2019
Title: *Leading Co-creation in Multi-disciplinary Applied Projects* Glasgow, Scotland
University of Strathclyde

Design Principles and Practices, 12th Int'l Conference 3/5/2018
Title: *Developing the Next Generation of Change Makers:* Barcelona, Spain
The Innovation and Design Cooperative at Appalachian State University
Elisava Barcelona School of Design

Engineering & Product Design Education, 17th Int'l Conference 9/4/2015
Title: *Student Design Entrepreneurship – from concept to retail in 90 days* Loughborough, UK
Loughborough University

Collaboration, Interaction, Participation 2/14/13
College Art Association 101st Annual Conference New York, NY
American Institute of Graphic Arts Panel

Form, Function, Emotion: designing for the human experience 9/7/12
Artesis University College Antwerp, Belgium
14th International Engineering & Product Design Education Conference

Poster presentation, and paper published in conference proceedings

Teaching Creativity & Design Process to Non-Designers 11/11
 Politecnico di Torino Turin, Italy
 Design As Process Annual Conference

Visiting Artist Lecture 9/11
 Miami University Oxford, OH

Humanities Research Cluster Presentation 4/15/11
 Appalachian State University Boone, NC
 Designing the Future: Sustainable and Human-Centered Innovation

Making It 2/28/11
 Winthrop University Galleries Rock Hill, SC
 Making it in the Real World Lecture Series

Panel Discussion & Presentation 11/09
 International Digital Media Art Association, iDMAa 2009 Conference Muncie, IN
 Panel: Physical Computing and Hybrid Realities

Visiting Artist Lecture 4/09
 Massachusetts College of Art & Design Boston, MA
 Artist lecture to students and faculty, individual critiques with students

Visiting Artist Lecture 2/09
 Kansas State University Manhattan, KS
 Lecture to students and faculty in conjunction with exhibition of work

Algorithmic Design 3/6/08
 Society of North American Goldsmiths, 2008 Annual Conference Savannah, GA
 One of eight conference lectures on individual research

Bottom-up vs. Top-down Digital Design 1/19/2008
 CADlaboration Conference, Tyler School of Art Philadelphia, PA

Visiting Artist Lecture & Biomimicry Workshop 10/19/07
 University of Michigan Ann Arbor, MI
 Biomimetics workshop with 3D art students

Visiting Artist Lecture 7/9/07
 SIGGRAPH Conference, Guerilla Studio San Diego, CA

Visiting Artist Lecture & Droog Presentation 1/4/07
 University of Wisconsin Madison, WI

Inside Droog Design 11/16/2006
 Museum of Arts and Design New York, NY

Scripting in Rhino 11/4/2006
 CADlaboration Conference, Tyler School of Art Philadelphia, PA

Publications
Authored

The Value of Design & Engineering Education in a Knowledge Age 9/2020
Design in Context Herning, Denmark
 Published by Design Sketching SIG, Design Society
<https://designsketching.designsociety.org/40/DESIGN+IN+CONTEXT>

Towards a New Innovation Landscape 9/2019
Leading Co-creation in Multi-disciplinary Applied Projects Glasgow, UK
 Co-authored with Dries Laperre (Howest, Belgium) & Mark Lewis (AppState)
 Proceedings of the 21st Int'l Conference on Engineering & Product Design Education
 The Design Society and Institute for Engineering Designers

Great Expectations: Design Teaching, Research, and Enterprise 9/2015
Student Design Entrepreneurship – from concept to retail in 90 days; pp. 570-575 Westbury, UK

Proceedings of the 17th Int'l Conference on Engineering & Product Design Education
The Design Society and Institute for Engineering Designers

International Journal of Management Education 11/2014
Title: *Managing and Fostering Creativity: an integrated approach*
Co-authored with Dr. Mark Lewis
Vol.12, Issue 3, Nov.2014, Published by Elsevier Ltd.

Collaboration, Interaction, Participation 2/2013
What Does the Rise of Participatory Culture Mean for Art and Design Education? NY, NY
Proceedings from panel presentation
College Art Association 101st Annual Conference, 2013

Design Education for Future Wellbeing 9/2012
14th International Conference on Engineering and Product Design Education Antwerp, Belgium
Title: *Form, Function, Emotion: designing for the human experience*
Presented at Artesis University College and published in proceedings

Third International Forum for Design As Process 11/2010
Title: *Teaching Creativity & Design Process to Non-Designers* Turin, Italy
Presented at Politecnico di Torino and published in proceedings

Leonardo Summer 2010
Journal of the International Society for the Arts, Sciences, & Technology Cambridge, MA
MIT Press; Volume 43, Number 4
Introduction to *TouchPoint: Haptic Exchange Between Digits*

iDMAa Journal Winter 2009
International Digital Media Arts Association USA
Article titled: Adapting Craft, Adopting Technology, Expressing Nature

**Publications
from Exhibits**

Out of Hand – Materializing the Post-digital 10/2013
Exhibition catalog for exhibition at Museum of Arts & Design NY, NY

designboom.com, ICFE designboom Mart 5/2012
<http://www.designboom.com/design/icff-designboom-mart-new-york-2012/> NY, NY
International Contemporary Furniture Fair (ICFF)
This work also posted on Designmilk, treehugger.com, and other design blogs

Manifest v45 5/2010
Manifest Creative Research Gallery & Drawing Center Cincinnati, OH
6th Annual Magnitude 7 Guidebook

FutureForward 5/2010
The BECA Foundation (Bridge for Emerging Contemporary Art) New Orleans, LA
Exhibition Catalog

EarthVisions Art Exhibition 4/2010
Museum of Science and Industry, ARC Gallery Tampa, FL
Exhibition Catalog

**Publications
by Others**

Charlotte Observer 1/27/2020
This ASU Professor Combines Technology and Design to Create 3D Works of Art
<https://www.charlotteobserver.com/entertainment/arts-culture/article239317173.html>

Wired, Design | Life Issue 10-12/2014
Joinks toy design featured in the *Have Fun Shopping Guide*

Wired.com 3/7/2014
A Slick Lego Competitor Built for Tiny Kids and Infinite Creativity
Author: Joseph Flaherty Bryan Lufkin
<http://www.wired.com/2014/03/flexure-rubber-construction-kit-legos/>

Other write-ups about Flexure/Joinks toy design project:

Could This Toy Replace Your Kids' Legos and Inspire Your to Create Too?
<http://www.brit.co/flexure/>
 Richard Elaver Reinterprets Rubber Spatula in Flexure Toy Set
<http://www.designboom.com/design/richard-elaver-reinterprets-rubber-spatula-in-flexure-toy-set-02->
 Designboom article re-posted by architectura.blogspot.com, ffffound.com,
unknownmale.com, studioprzedmiotu.pl, purisco.com, vdoop.com, and others

Designboom.com 5/21/2012

ICFF designboom mart new york 2012

Published on designboom.com as part of the designboom mart

<http://www.designboom.com/design/icff-designboom-mart-new-york-2012/>

Other write-ups from ICFF showing

Designmilk.com 5/23/2012

ICFF 2012

Work posted by Jaime Derringer as part of her survey of ICFF 2012

<http://design-milk.com/icff-2012-part-3/>

Coolhunter.com 5/23/2012

Intricate pens, fashion-forward jewelry and more printed in 3D

James Thorne posted on designs shown at ICFF 2012

<http://www.coolhunting.com/design/richard-elaver.php>

Participate: designing with user-generated content 10/2011

Helen Armstrong & Zvezdana Stojmirovic, Princeton Architectural Press New York

Two projects featured in book

Indiana University Research & Creative Activity Spring 2010

Volume XXXII, Number 2 Bloomington, IN

Hands-on Sculpture, article about New Frontiers Grant

Curating

Chair of Juried Art Gallery, Siggraph 2010 9/09 – 9/10

Oversaw Juried Art process for 2010 international conference Los Angeles, CA

- Assembled jury and review panel, coordinated review process
- 270 submissions, 14 exhibitors selected; over 10,000 attendees at conference
- Worked with editor to create Leonardo publication of exhibit
- Designed exhibition and supervised installation/de-installation

Artists in Residence Coordinator 6/07 – 12/07

The Studio at Siggraph Los Angeles, CA

Curated group of 6 artists for 1-week residency

make shift 1/09 – 2/09

Chapman Gallery, Kansas State University Manhattan, KS

Curated three-person exhibition

Grants & Awards

Steelcase Active Learning Center Grant 9/2017

Applab classroom furniture Grand Rapids, MI

\$65,000 nationally competitive grant for classroom furniture

AppState 2012 University Research Council Grant 1/12 – 12/12

For Modular Organic Systems Project, independent research Boone, NC

\$5,000 campus-wide competitive grant

Indiana University, New Frontiers in Arts & Humanities 1/10 – 8/10

IU grant for independent faculty research, Tendrils Project Fort Wayne, IN

\$30,000 statewide competitive grant

Second Place Award 9/2010

Allegany Arts Council Cumberland, MD

Will's Creek Survey, 2010 Juried Exhibition

	Honorable Mention, 3D Riverside Arts Center, Small Works Juried Exhibition	9/2010 Ypsilanti, MI
	Faculty Development Grant College of Visual and Performing Arts grant for faculty research	6/09 – 6/10 Fort Wayne, IN
	Faculty Summer Research Grant IPFW campus grant for independent faculty research \$10,000 campus-wide competitive grant	6/07 – 11/07 Fort Wayne, IN
	Fulbright Fellowship Independent research investigating Dutch designer-craftsmen	9/05 – 6/06 Amsterdam, Netherlands
	NEOCON Gold Award Bretford 'Liquid' Mobile Office Furniture System	6/2003 Chicago, IL
	Best Products of 2002 – USA Today Wilson Sports, Youth Batting Helmet	
Patents	Flexure provisional patent Provisional patent for Flexure Building Toy Full utility patent application submitted 10/2014	10/2013
	Vollrath Chafer Serving Dish US Patent D532,647	11/2006
	Bretford 'Liquid' Furniture System US Patents D515,032, D515,033, D515,034, D511,957	2/2006
	Schutt Football Helmet US Patent D512,534	12/2005
	Pactiv Eating Utensils US Patents D510.505, D509.998, D509.709, D509.113, D508.635, D508.380, D507,941	8/2005
	Wilson Tennis Racket US Patents D503.442, 502.517	7/2004
	Utensil Handle US Patent D486,354	2/2004
	Mobile Storage System US Patents D493,640, D492,516, D491,004	5/03
Exhibitions	Transformations: App DigiFab Ten-person collaborative faculty exhibition Turchin Center for the Arts	11/22 – 5/23 Mayer Gallery Boone, NC
	Forma Cava Two-person collaborative exhibition Watauga County Arts Council	7/21 – 8/21 King St. Art Collective Boone, NC
	Structure & Void Juried solo exhibition Central Piedmond Community College	1/20 – 3/20 Overcash Center for Performing Arts Charlotte, NC
	Peripheral Technologies Curated exhibition of digital+handcrafted work Ann Arbor, MI	6/19 – 7/19 Ann Arbor Art Center
	Beyond the Buzz: "New Forms, Realities, and Environments in Digital Fabrication" Minneapolis College of Art and Design Gallery	1/15 – 3/15 Minneapolis, MN
	Out of Hand – Materializing the Postdigital	10/13 – 7/14

Curated exhibition of digital fabrication art & design Museum of Arts and Design	NY, NY
Paper or Plastic Speakeasy Gallery, juried exhibition	12/13 – 2/14 Boonton, NJ
XYZ 3D Curated exhibition of 3D printed designs Hosted by 3D Atelier and Grounded Amsterdam	5/13 – 6/13 Arnhem, Netherlands
Hot Seat, Design 2012 Exhibition 407, curated and juried exhibition	10/12 – 11/12 Marfa, TX
Penland Gallery Ongoing representation of 4-6 works	6/12 – 12/12 Penland, NC
Spark 3DS, Northern Spark Festival Gallery 13, curated and juried exhibition	6/12 – 7/12 Minneapolis, MN
3D Printed Living Curated exhibited in Shapeways showroom at Dutch Design Week	10/12 Eindhoven, Netherlands
Designboom Mart International Contemporary Furniture Fair, juried participation	5/12 New York, NY
Material Workshop: Cranbrook for Alessi Alessi Showroom, curated participation and juried selection	5/12 – 6/12 New York, NY
Material Workshop: Cranbrook for Alessi Cranbrook Museum of Art	3/12 Bloomfield Hills, MI
The Alchemy of Change 13th Annual Digital Print Exhibition for Art & Science Collaborations New York Hall of Science, juried exhibition	9/11 – 2/12 New York, NY
<i>Conflux – an exhibition celebrating the intersection of art + technology</i> Pearl Conard Art Gallery, Ohio State University	1/12 – 3/12 Mansfield, OH
Art Inter/National Boxheart Gallery	1/12 - 2/12 Pittsburgh, PA
Annual Juried Exhibition Gallery 110	2/12 Seattle, WA
Digital Unity ANNEX: Art	9/11 – 10/11 Prignitz, Germany
Multiples Pacific Arts League	9/11 Palo Alto, CA
Digital Mettle: Jewelry & Objects of CAD National Ornamental Metals Museum	6/11 – 9/11 Memphis, TN
9x12 Ferencvarosi Pince Gallery, Hungarian Multicultural Center	5/11 – 6/11 Budapest, Hungary
Nest Torpedo Factory Art Center	4/11 – 5/11 Alexandria, VA
National Juried Exhibition New Rochelle Council on the Arts	5/11 New Rochelle, NY
National Juried Exhibition Florida Arts West	11/10 – 12/10 Bonita Springs, FL
ArtPrize 2010 Immanuel Lutheran Church	9/10 – 10/10 Grand Rapids, MI

Will's Creek Survey 2010 Allegany Arts Council	9/10 – 10/10 Cumberland, MD
Salmagundi XIV Rocky Mount Arts Center	10/10 – 1/11 Rocky Mount, NC
Small Works Riverside Arts Center	9/2010 Ypsilanti, MI
Green: art with the earth in mind AnnMarie Garden and Arts Center – Smithsonian Institute	6/10 – 8/10 Solomons, MD
Earthvisions Arc Gallery, Museum of Science and Industry	5/10 – 6/10 Tampa, FL
Magnitude 7 Manifest Gallery and Drawing Center	5/10 – 6/10 Cincinnati, OH
Future Forward International Center for Art + Design	5/10 New Orleans, LA
Dimensions 2010 Associated Artists of Winston-Salem	4/10 – 5/10 Winston-Salem, NC
Residency Haystack Mountain School of Craft Two-week competitive residency Collaborative project with Wayne Sutton	5/22 – 6/22 Deer Isle, ME