

Brian Harms

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Contact

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About

My work focuses on the design and development of novel user experiences, products, and services. I create digital and physical prototypes that span multiple disciplines such as robotics, AR/VR, multimedia/projection mapping, sensing, mobile app design, industrial design, mechanical design, graphic design, and fabrication, to bring brand new products to life.

Education

2013

M.DesR | SCI-Arc | GPA 4.0
Master of Design Research
Southern California Institute of Architecture
Los Angeles, CA

The Emerging Systems & Technology/Media graduate program, enriched by its robotics and fabrication laboratory, fosters creativity and entrepreneurship. Using a multidisciplinary approach, SCI-Arc equips students with cutting-edge skills, empowering them to thrive in diverse industries that shape the future.

2011

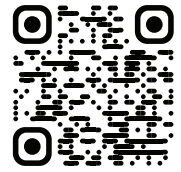
B.Arch | Cal Poly | GPA 3.5
Bachelor of Architecture
California Polytechnic State University
San Luis Obispo, CA

Cal Poly's Bachelor of Architecture program excels in innovative, hands-on education, emphasizing sustainability and design excellence, preparing students for successful careers in architecture and beyond.

Professional Experience

2013 - 2023	Think Tank Team Samsung Research America Mountain View, CA	A team of interdisciplinary researchers, scientists, designers, strategists, and engineers that help Samsung envision & invent the future.
2023	Senior Staff 1 Engineer	Managing direct reports, managing multiple projects, patent filing, hiring management.
2021	Staff 2 Research Engineer	Kickstarted 3 major impact projects within the span of several months and managed each.
2018	Staff 1 Research Engineer	Worldwide demonstrations of our vision of the future of home robotics with Bot Chef.
2016	Senior Research Engineer	Prototyped, developed, & managed Project SARAM, a new robotics platform for Samsung.
2013	Research Engineer	Invented magical human computer interaction (HCI) technologies and designed their UX.
2016 - 2017	Olivier Bau Consulting 32al LLC San Francisco, CA	Olivier Bau's design & tech consultancy, 32al, blends technology and art to create clever and stunning experiences.
2017	Volkswagon Project Consultant	Future project concept proposal under NDA. Berlin, Germany.
2017	Vuforia Project Consultant	Electrical & Lighting design for Augmented Reality product demo, Anaheim, CA.
2016	AirBnB Project Consultant	Lightwave Art installation, setup & operation at the LA Open festival, Los Angeles, CA.
2012 - 2013	SCI-Arc Robot House Southern California Institute of Architecture Los Angeles, CA	Oversaw and programmed the operation of up to 6 industrial robot arms, built end-effectors and custom end-arm tools to perform varieties of tasks for students and professors.
2011 - 2022	Griffin Enright Architects Los Angeles, CA	Contemporary architects Margaret Griffin and John Enright shape exceptional spaces.
2012	Architectural Designer	Complex parametric design for rapid design iteration & reduction of fabrication complexity.
2011	Architectural Intern	Learning Architectural Design Practices.
2010 - 2011	Design Internships San Francisco, CA	Academic architecture internships accepted to while at Cal Poly, San Luis Obispo
2011	Future Cities Lab	Parametric modeling specialist and designer.
2011	Doug Jackson Design Studio	Physical model designer and fabricator.
2010	Iwamoto Scott Architects	Architectural design & rendering.

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Skills

General

Perspective taking, Spatial thinking.
Learning new skills quickly.
Balancing utility and design.
Prototyping inspirational experiences.
Strategy from Pitch-to-Product.
Project Management.

Software

Rhino3D, Grasshopper, Processing,
Unity, Maya, Blender, Touch Designer,
MS Office, Adobe Suite (AI, PSD, AE),
TouchOSC, Arduino, Android Studio,
VS Code (C#, VBScript, Python).

Hardware

Electronics Prototyping (Arduino, etc.),
Motion Capture (Leap Motion, Optitrack),
Depth Sensing (Kinect, Realsense),
Articulated Industrial Robot Arms
(Staubli, Kuka, Denso, Automata),
Soldering, Simple PCB design.

Fabrication

3D Printing, CNC Milling, Laser Cutting,
Hot Wire Foam cutting, Experimental 3D
Printing (Resins & Wax), Woodworking,
Vacuum Thermo Forming.

Recent Patents

2023-08-31 | US20230274549A1

**Systems and Methods for Video Event
Segmentation Derived from
Simultaneously Recorded Sensor Data**
Pending, Samsung Electronics Co Ltd

2022-09-15 | US20220288777A1

**Parameterized Waypoint Generation on
Dynamically Parented Non-Static Objects
for Robotic Autonomous Tasks**
Pending, Samsung Electronics Co Ltd

2020-12-01 | US10854169B2

**Systems and methods for virtual displays
in virtual, mixed, and augmented reality**
Active, Samsung Electronics Co Ltd

2020-03-26 | US20200096945A1

Wall clock AI voice assistant
Pending, Samsung Electronics Co Ltd

Teaching & Speaking Experience

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| 2017 | SXSW Interactive
(South by Southwest)
Austin, TX | A presentation of my work & participation in panel discussion: "New Architect's Toolkit: Sound, Film, Projection, & Robotics." |
| 2014 | Visiting Faculty Member
California College of the Arts
San Francisco, CA | Taught "Robots In Architecture" semester course with Jason Johnson of Future Forms and Future Cities Lab. |
| 2013 | Teaching Assistant
Southern California Institute of
Architecture (SCI-Arc)
Los Angeles, CA | Assisted students in Devyn Weiser's, "Art Machines" robotics seminar. Programmed toolpaths, fabricated end-arm tools, produced photo and video documentation. |
| 2012 | Parametric Software &
Arduino Workshops
Cal Poly, San Luis Obispo &
SCI-Arc, Los Angeles, CA | Designed and lead several workshops on electronics prototyping with Arduino, Rhino, Grasshopper, Firefly, and more, for several classes of students. |

Awards & Recognitions

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| 2020 | Platinum Award Winner
A'Design Award & Competition
Samsung Research America | Project Bot Chef won an international, juried design accolade established to recognize and promote good designs worldwide. |
| 2019 | President's Award
Samsung Research America
Mountain View, CA | In recognition of their exceptional talent, innovation and contributions for Bot Chef Project Management, September 2019. |
| 2019 | President's Award
Samsung Research America
Mountain View, CA | In recognition of their exceptional talent, innovation and contributions for Robotics Innovation, March 2019. |
| 2017 | Imprimer le Monde
Printing the World Exhibition
Paris, France | Upon request, the Suspended Depositions project was shown at the Pompidou Center for an exhibit about 3D printing innovation. |
| 2016 | Exhibition
Elements of Art and Science
Linz, Austria | Suspended Depositions included in Ars Electronica Center Exhibition that explores and rethinks technology between disciplines. |
| 2013 | SCI-Arc Admissions
Offered Maximum Scholarship
Los Angeles, CA | Awarded maximum admissions scholarship offered by SCI-Arc for the 2012-2013 academic school year. |
| 2012 | Design Exhibition
Land of Tomorrow gallery
Louisville, KY | A-FAB (senior undergraduate project) exhibited at the Land of Tomorrow design gallery. |
| 2011 | Best In Show
Undergraduate Thesis Project
Cal Poly, San Luis Obispo, CA | A-Fab Robotic Architecture won best in show amongst hundreds of peer presented projects. |