

# Harrison Floyd, PE

Lecturer, Clemson University School of Architecture

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## Professional Licensure

- └ South Carolina Professional Engineer, 2014 (License #31684)

## Education

**Clemson University**, Clemson, SC

Master of Architecture with Digital Ecologies Certificate, May 2021

- └ Henry Adams Medal, 2021
- └ Edward Allen Student Award, 2021
- └ SC AIA Honor Award, 2021
- └ Martin A. Davis Award, 2020
- └ Graduate teaching assistant for ARCH 2510/2520 Architecture Foundations I/II

**University of South Carolina**, Columbia, SC

Bachelor of Science in Mechanical Engineering, May 2010

- └ University of South Carolina Solar Boat Project Volunteer
- └ Dean's Honor List
- └ University Bicycling Club, Founder and President
- └ Physics and Algebra Tutor
- └ Radio Show Host, WUSC FM

## Professional Experience

**Clemson University**, Clemson, SC

*Lecturer*, August 2021 – Present

- └ Deploy creative, design, and fabrication skills to help students develop and communicate their own designs using digital and physical tools

**LS3P**, Columbia, SC

*Intern/Intern Architect*, June 2020–August 2020, May 2021 – Present

- └ Assist with the production of construction and other documents for various projects
- └ Evaluated WBLCA tools and processes to facilitate the firm's in-house carbon reduction efforts

**Quackenbush Architects + Planners**, Columbia, SC

*Summer Intern*, May 2019–August 2019

- └ Developed concepts for the upfit of the Robert Mills Carriage House event space
- └ Produced drawings for AIA awards submissions
- └ Generated renderings of current and potential projects

**RhythmLink International, LLC**, Columbia, SC

*Senior Product Engineer*, July 2016–August 2018

- └ Managed and participated in the development of new medical devices and accessories for neurological monitoring at all project phases, from concept development through validation
- └ Developed and oversaw the implementation and qualification of new manufacturing processes
- └ Assisted with patent applications and governmental regulatory submissions
- └ Provided technical support for products, including manufacturing support, tooling and fixture design and fabrication, and end-user consultation

**RhythmLink International, LLC, Columbia, SC**

*Product Engineer*, May 2011–July 2016

- └ Managed and participated in all aspects of the design and development of new neurological monitoring devices
- ┐ Collaborated with other firms to test new products
- └ Evaluated and implemented cost-saving initiatives and improvements for manufacturing methods

**RhythmLink International, LLC, Columbia, SC**

*Product Quality Engineer*, July 2010–May 2011

- └ Designed and built parts and fixtures for use in the manufacturing of neurological monitoring devices
- ┐ Developed and performed a variety of tests for product research and development
- ┐ Utilized various production methods to build and test prototypes and fixtures, including CNC machining, hand milling, various wood and metal-working shop tools, 3D printing, and laser cutting

**Outspokin' Bicycles, Columbia, SC**

*Bicycle Mechanic*, June 2002–June 2010

**Professional Pedagogy**

- └ Undergraduate Design Studio III: ARCH 2510 *Architecture Foundations* (Fall 2021)
- ┐ *Architecture Portfolio Design*: ARCH 4010 (Fall 2021)
- └ Undergraduate Design Studio IV: ARCH 2520 *Architecture Foundations II* (Spring 2022)
- ┐ Undergraduate Design Studio II: ARCH 1510 *Architecture Communication* (Spring 2022)

**Notable Professional Design and Research Projects**

- └ Managed the development of the first neuromonitoring electrode of its type to be cleared by the FDA for use in both 1.5 and 3-Tesla MRI systems
- ┐ Managed the development of RhythmLink's CT electrode line, employing new materials and fabrication techniques to increase compatibility with CT imaging systems
- └ Managed the augmentation of RhythmLink's MRI electrodes for greater radiolucency and compatibility with CT imaging systems and improved patient ergonomics
- ┐ Managed the construction and validation of RhythmLink's first on-site ISO Class 8 clean room
- └ Developed and oversaw the installation of a textile assembly line within RhythmLink's production facility in Shenzhen, China
- ┐ Inventor, US 11,160,483 B2 and other pending patent applications

**Professional Awards**

- └ City of Columbia Park(ing) Day People's Choice Award (w/ LS3P Columbia), 2021
- ┐ RhythmLink International Employee of the Year, 2014
- ┐ RhythmLink International Olsen Award for Cost Savings, 2012

**Service and Community Involvement**

- └ Southern Off-Road Biking Association (SC Midlands Chapter), Board Member (2017—
- ┐ AIA Columbia, Clemson Liaison and Board Member (2022—
- ┐ AIA Columbia, Kids in Architecture Co-Chair (2022—

## Appendix A



*[further experiments]*