

# 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
- ↳ Research and promote innovation in projects, processes, and the industry as Columbia office representative of the Ignite internal knowledge team

**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 award submissions and 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

**Rhythmink International, LLC, Columbia, SC**

*Product Engineer, May 2011–July 2016*

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

**Rhythmink 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, 2022, 2023)
- ┆ Architecture Portfolio Design: ARCH 4010 (Fall 2021)
- ┐ Undergraduate Design Studio IV: ARCH 2520 Architecture Foundations II (Spring 2022, 2023)
- ┆ Undergraduate Design Studio II: ARCH 1510 Architecture Communication (Spring 2022, 2023)
- ┆ Undergraduate Design Studio I: ARCH 1010 Introduction to Architecture (Fall 2022, 2023)

**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 Rhythmink's CT electrode line, employing new materials and fabrication techniques to increase compatibility with CT imaging systems
- ┐ Managed the augmentation of Rhythmink's MRI electrodes for greater radiolucency and compatibility with CT imaging systems and improved patient ergonomics
- ┆ Managed the construction and validation of Rhythmink's first on-site ISO Class 8 clean room
- └ Developed and oversaw the installation of a textile assembly line within Rhythmink's production facility in Shenzhen, China
- ┆ Inventor, US 11,160,483 B2 and other pending patent applications
- ┆ Currently working with colleagues at LS3P to integrate advanced/alternative modeling workflows into existing BIM ecosystems

**Professional Awards**

- └ City of Columbia Park(ing) Day People's Choice Award (w/ LS3P Columbia), 2022
- ┆ City of Columbia Park(ing) Day People's Choice Award (w/ LS3P Columbia), 2021
- ┐ Rhythmink International Employee of the Year, 2014
- ┆ Rhythmink 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—
- ┐ South Carolina Architectural Foundation Clemson Liaison (2023—
- ┆ AIA Columbia, Kids in Architecture Co-Chair (2022—
- ┆ AIA Columbia Homes by Design Docent (2022—

## Appendix A



*[further experiments]*