

# Jeffrey S. Kim

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Assistant Professor, McWhorter School of Building Science,  
Auburn University

## EDUCATION

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### Georgia Institute of Technology

May - 2016

Atlanta, Georgia

Master of Science: Building Construction and Facilities Management

*Master's Thesis Topic: Improving Spatial Ability in Construction Management Students Through the Use of Augmented Reality*

### Auburn University

September - 1994

Auburn, Alabama

Bachelor of Science: Building Science

## CAREER HISTORY

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### Business Analyst

2010 - 2013

Holder Construction Company

Coupled extensive knowledge of the business practices and culture of the company with construction process expertise to act as a liaison between I.T. and the core construction business to research, test and implement newly available technologies ensuring maximum impact for the organization. The focus was on innovative technologies that could improve process efficiency while adding to the knowledge base of the organization. Many of these could be further researched at an academic level.

### Systems Software Implementer

2008 - 2010

Holder Construction Company

Managed the technical implementation of enterprise-wide systems that replaced antiquated platforms. Capitalized on the opportunity to standardize practices and improve efficiency during the process.

### Corporate Educator

2000 - 2008

Holder Construction Company

Refer to "TEACHING EXPERIENCE" section in this CV.

### Construction Project Manager

1996 - 2001

Holder Construction Company

Managed, coordinated, and administered the construction process from concept development through project completion. Expertly accomplished in project planning, budgeting, forecasting, and cost control, change management, logistics and materials management, personnel management and labor relations, site safety, quality control, construction contracting, construction processes and techniques, organization and scheduling, building commissioning and turnover, and applicable codes and regulations.

### Pre-Construction / Estimating

1991 - 1996

Holder Construction Company

Pursued sales with new clients, generated client proposals, and led contract negotiation, award and administration. Performed risk management and legal review of projects in addition to producing conceptual and detailed estimates with value engineering alternatives, and developed comprehensive scope packages used in the procurement process.

## TEACHING EXPERIENCE

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### Assistant Professor

2016 - Present

[Auburn University](#)

The McWhorter School of Building Science in the College of Architecture, Design and Construction, Auburn University

### Lead Mentor and Curriculum Advisor

2011 - Current

ACE Mentor Program, USA

Aid in the development of class content and delivery of periodic lectures to high school students interested in the architecture, construction and engineering industry. Author monthly newsletter for the regional program.

### Corporate Educator

2005 - 2008

Holder Construction Company

Coordinated, prepared materials for, and delivered 375 hours of construction process and technology related training courses. Opportunities ranged from one-to-one skills training and online distance training to classroom directed training. Audiences included Holder employees as well as clients and project partners.

Representative Course Titles

#### *Project Controls*

- Project Systems and Controls
- Contract Administration Process
- Project Budgeting
- Cost Projection and Forecasting Process
- Job Site Cost Controls

#### *Project Management*

- Job Site Change Management
- Management of Submittals
- Punch List Tracking and Processing
- Managing Job Site Material Deliveries and Long Lead Equipment
- Approving Invoices and Payment Applications

#### *Construction Information Technology*

- Managing a Digital Project Close Out
- Scheduling Software for Project Schedules
- Managing Communications with a Project Website
- Job Site Photo Management Using Lynx
- Use of Technology at the Job Site
- Using Adobe Acrobat
- Using Camtasia
- Introduction to Online Video Conferencing

## PUBLICATIONS

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### Academic Journals (3)

Killingsworth, J., Mehany, M., Kim, J. (2018) "Construction Industry Financial Behavior During Changing Economic Conditions", Construction Management and Economics, (Undergoing Peer Review 2018).

Kim, J., Irizarry, J. (2018) "*Improving Spatial Skills as an Approach to Accelerate the Use of Augmented Reality in the Construction Industry*", International Journal of Construction Education and Research, (Undergoing Peer Review 2018).

Redden, L., Collins, W., Kim, J. (2017) "*Integration of Construction Mobile Technologies into Construction Management Curriculum: A Case Study*", Proceedia Engineering, Volume 196, 2017, pp 535-542 (<https://doi.org/10.1016/j.proeng.2017.08.026>).

## Conference Proceedings (12)

Kim, J. (2019) "*Student Guides Virtual Reality Tour as a Method for Improving BIM Development*", 2019 Creative Construction Conference, Budapest, Hungary (Presentation Expected June 2019).

Kim, J., Liu, J., Ghimire, P. (2019) "*The Categorization of Virtual Design and Construction Services*", CIB World Building Congress 2019, Hong Kong, China (Full Paper Submitted – Presentation Expected June 2019).

Leathem, T., Redden, L., Kim, J., Preer, I., Collins, W. (2019). "*Student Perspectives on the Use of iPads for Navigating Construction Drawings: A Case Study*", American Society for Engineering Education - 126th Annual Conference and Exposition (Abstract Accepted - Presentation Expected June 2019).

Kim, J. (2019) "*360 Degree Panoramic Virtual Reality Content for Student Field Trips*", 55th ASC Annual International Conference Proceedings, Denver, Colorado (Presentation Expected April 2019).

Collins, W., Km, J., Redden, L. (2019) "*Mobile Device Utilization in Classes by Faculty of ASC Member and ACCE Accredited Construction Programs*", 55th ASC Annual International Conference Proceedings, Denver, Colorado (Approved Proceeding Submitted - Presentation Expected April 2019).

Kim, J., Leathem, T. (2018) "*Virtual Reality as a Standard in the Construction Management Curriculum*", International Conference on Construction Futures, Wolverhampton, UK.

Azhar, S., Kim, J., Salman, A. (2018) "*Implementing Virtual Reality and Mixed Reality Technologies in Construction Education: Students' Perceptions and Lessons Learned*", 11th Annual International Conference of Education, Research and Innovation, Seville, Spain (DOI:10.21125/iceri.2018.0183).

Kim, J. (2018) "*A Study to Investigate Using Mobile Devices in the Construction Management Classroom as Rationalized by the Needs of Industry*", 2018 Creative Construction Conference, Ljubljana, Slovenia (DOI 10.3311/CCC2018-017).

Collins, W., Redden, L., Kim, J., (2018) "*Leveraging Mobile Applications to Promote ACCE Student Learning Outcomes*", 54th ASC Annual International Conference Proceedings, Minneapolis, Minnesota.

Blackmon, T., Kim, J., Taylor, J., (2018) "*Factors Hindering the Incorporation of Virtual Design and Construction Services into Construction Management Firms in the Southeastern United States*", 54th ASC Annual International Conference Proceedings, Minneapolis, Minnesota (Awarded Honorable Mention).

Romigh, A., Kim, J., Sattineni, A., (2017) "*4D Scheduling: A Visualization Tool for Construction Field Operations*", 53rd ASC Annual International Conference Proceedings, Seattle, Washington (<http://doi.org/10.1016/j.autcon.2013.10.009>).

Kim, J., Irizarry, J. (2017) "*Assessing the Effectiveness of Augmented Reality on the Spatial Skills of Postsecondary Construction Management Students in the U.S.*", 2017 Proceedings of the 34th ISARC, Taipei, Taiwan, pp 173-180 (<https://doi.org/10.22260/ISARC2017/0023>).

## Academic Posters (2)

Kim, J., (2019) "*Student Guided Virtual Reality Tours in Building Science to Promote Spatial Learning*", 2019 Conversations in Celebration of Teaching, Auburn University.

Kim, J., (2018) "*A Review of Students Perceptions with Interactive Virtual Reality in the Construction Management Classroom*", 2018 Conversations in Celebration of Teaching, Auburn University.

## Books, Reports and Other (1)

Kim, J., Collins, W., (2018) "*Site Logistics and a Series of Unfortunate Events: A Case Study*", Associated General Contractors (AGC) Education and Research Foundation (Undergoing Peer Review 2018).

## Serving as Reviewer (7)

"*Low Energy Greenhouse Cooling: Discovering, Developing, and Testing Potential New Innovative Solutions*", (2019) Auburn University Intramural Grants Program, Interdisciplinary Team Research Grant.

"*Development and Testing of a Career Comparison Tool for Promoting Careers in Construction*", (2019) Associated Schools of Construction.

"Student Expectations of Multi-Disciplinary Learning", (2019) Associated Schools of Construction.

"A Learning Organization in Virtual Reality: Exploring the Factors of Applying Stereoscopic 3D Technologies in Knowledge Transfer and Sharing Strategy", (2018) Interactive Learning Environments

"A Case Study in Research Development Through Collaborative Academic-Industry Partnerships", (2018) Associated Schools of Construction.

"A Feasibility Study of IFC-Based BIM 4D Simulation Using Commercial Systems to Support Construction Planning in the U.S.", (2018) Associated Schools of Construction.

"Robotic Data Collections and Simulation of Building Retrofit Performance", (2017) Automation in Construction.

## STUDENT DEVELOPMENT

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### **Chartered Institute of Builders (CIOB) Student Competition**

January 2019

Online Company Simulator

27 Students

### **ASC Regions 6&7 Student Competition**

February - 2019

VDC Competition

7 Students

### **ASC Regions 6&7 Student Competition**

February - 2019

Project Management Competition

6 Students

### **ASC Regions 6&7 Student Competition**

February - 2018

Project Management Competition

6 Students

### **Design-Build Institute of America, Auburn University Student Chapter**

2017 - Current

Faculty Advisor

### **CFMA Student Competition**

November - 2017

Student Financial Management Competition

9 Students

### **ASC Regions 6&7 Student Competition**

February - 2017

VDC Competition

6 Students

## INSTRUCTED COURSES

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Project Controls 2 (BSCI 3650)

Preconstruction and Project Management (BSCI 3660)

Construction Information Technology (BSCI 3500)

Advanced Construction Information Technology (BSCI 4500)

Contracting Business (BSCI 4800)

## GRADUATE STUDENT ADVISOR

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### **Greg Jones**

In-Progress - Expected SUMMER 2019

Declining Diversity in the Construction Trades in Lee County,  
Alabama

Committee Chair

### **Jess Donnerberg**

In-Progress - Expected SPRING 2019

Insight into Practitioners' Perceptions Regarding Co-Location  
and Project Value in Design-Build

Committee Chair

### **Patrick (Peesadech) Zornetr**

In-Progress - Expected SUMMER 2019

Assessing the Gamification of a Virtual Reality Construction  
Safety Educational Tool

Committee Chair

### **Abuzar Haroon**

In-Progress - Expected SUMMER 2019

Utilizing BIM and AR to Minimize Time Required to Conduct  
Building Maintenance Inspections

Committee Member

### **Ishmael Preer**

In-Progress - Expected SUMMER 2019

The Impact of Mobile Technology in Construction Education

Committee Member

### **Jordan Grogan**

In-Progress - Expected SUMMER 2019

Analyzing Available Technology for Monitoring Construction  
Progress

Committee Member

### **Brenden George**

Withdrew From Program - 2018

Mobile Device Activities in the Construction Management  
Classroom that Support ACCE Student Learning Objectives

Committee Member

### **Mason Handey**

Graduated - 2018

360° Panorama with Virtual Reality Content: A Study of Efficacy of an Intervention  
on First-Year Construction Management Students

Committee Chair

### **Prashna Ghimire**

Graduated - 2018

VDC Departmental Differentiator: Advantages and Disadvantages  
Committee Chair

**Reynolds Herlong**

Graduated - 2018

Mobile Device Usage within Construction Management Programs in the U.S.  
Committee Member

**Austin DaValle**

Graduated - 2017

An Investigation of Mixed Reality for On-Site Assembly  
Committee Member

**Lindsey (Xin) Li**

Graduated 2017

The Use of BIM for Facility Management in Higher Education Buildings: A Case  
Study of Auburn University  
Committee Member

**Tiffany Blackmon**

Graduated - 2017

Factors Hindering the Incorporation of Virtual Design and Construction Services  
into General Contracting Firms in the Southeastern United States  
Committee Chair

## AWARDS AND CERTIFICATIONS

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**New Faculty Scholar**

2018 - 2019

Auburn University  
Selected for participation in interdisciplinary scholarly research engagement.

**Grant for Collaborative VR in the CM Classroom**

2017 - 2018

Center for Construction Innovation and Collaboration  
Award: \$4,400

**Award for Case Study Development for Site Logistics and Planning**

2017 - 2018

Associated General Contractors - Education and Research Foundation  
Amount: \$9,000

**Grant for Integration of Mobile Technology in the CM Classroom**

2017 - 2018

Center for Construction Innovation and Collaboration  
Amount: \$13,150

**Conference Paper Honorable Mention**

Awarded - 2018

Associated Schools of Construction  
For paper "*Factors Hindering the Incorporation of Virtual Design and Construction Services into Construction Management Firms in the Southeastern United States*"

**Outstanding Faculty Teaching Award** 2016 - 2017  
McWhorter School of Building Science

**Grant for Exploring Mobile Technologies in the CM Classroom** 2016 - 2017  
Center for Construction Innovation and Collaboration  
Award: \$8,265

## PROFESSIONAL SERVICE

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**American Council for Construction Education** 2015 - Current  
Member

**American Council for Construction Education - Training Subcommittee** 2018 - Current  
Member  
This subcommittee is charged with training individuals that participate in accreditation site visits for the ACCE. Additionally, develops this subcommittee and arranges training events that are conducted twice a year at the regional ACCE conferences.

**Associated Schools of Construction** 2016 - Current  
Member

**CMAA (Construction Management Association of America)** 2013 - Current  
Member

**DBIA (Design-Build Institute of America)** 2016 - Current  
Member

**Gwinnett Technical College (Construction Management Program)** 2012 - 2017  
Program Advisory Board - Emeritus Program Advisory Chair  
As an advisory committee, we provided oversight and supported the Construction Management program at Gwinnett Technical College by providing expert advice to keep the program aligned with today's industry expectations.

**AGC Electronic Information Systems Committee (Georgia Branch)** 2005 - 2009  
Member

**Graduate Advisory Council** 2003 - 2005  
Auburn University (Master's in Building Science, Construction Information Systems Graduate Track)

**aecXML Taskforce** 1999 - 2003  
Member

## OUTREACH

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### **SkillsUSA - Career Skills Education Program**

2013 - Current

Architectural Drafting Event Chair – State Level Judge and Competition Author

As the event facilitator, I solicit and organize event judges for the State-Level competitions for the SkillsUSA organization. This organization is focused on partnering students, teachers, and industry to ensure that America has a skilled workforce.

### **CEFGA (Construction Education Foundation of Georgia)**

2013 - Current

Event Sponsor Coordinator and National Event Volunteer

CEFGA is a State-Wide program that is supported by nationally recognized construction companies interested in providing a skilled workforce for Georgia. As an event facilitator, I coordinate Georgia construction firms interested in participating in the yearly Career Expo.

### **ACE Mentor Program**

2011 - Current

Lead Mentor - Atlanta North Region

The ACE Mentor Program is a national industry-supported program that brings awareness of the architecture, construction, and engineering (ACE) industry to high school students. The program mentors 9,000 students nationally from over 1,000 high schools. Students meet mentors weekly from January to May and engage in activities that promote the ACE professions. In my eight year involvement, I act as lead mentor in Atlanta, Georgia and I am responsible for creating weekly course content. This year I will bring MBC students from the McWhorter School of Building Science to participate in a construction activity for the students.

### **Auburn University's "Building Construction" Summer Camp for High School Students**

2017 - Current

Presenter and experiment facilitator with BIM, virtual reality, and augmented reality in the construction industry

During the summer semester, the McWhorter School of Building Science hosts a week-long summer camp for interested high school students. At this summer camp, I engage the students in an exercise with building information modeling (BIM), allowing them to build their own digital models. Students are also given the opportunity to view those models in virtual and augmented reality using some of the latest hardware on the market. Students take these tools to help them in a week-long building activity with the program coordinator.

## **UNIVERSITY SERVICE**

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### **Admissions Appeals Committee**

2017 - Anticipated End 2021

Member

Each semester this committee reviews all academic appeals for probationary students. The reviews consist of making recommendations for further study aid and, in some cases, academic counseling. The committee works very closely with Provost's office to maintain policy for giving every student the greatest opportunity to succeed in their academic careers.

### **ePortfolio Steering Committee**

2018 - Anticipated End 2012

Member

This committee meets regularly throughout the academic year to provide oversight and guidance for the University's ePortfolio Project. Additionally, the committee is charged with making recommendations on grant awards that help faculty members and their programs in the implementation of ePortfolios.

### **AUXR and Instructional Technology Committee**

2017 - Current

Member

This committee consists of like-minded individuals that are interested in pursuing the use of innovative technologies for instruction. Specifically, the focus has been on the use of virtual and augmented reality in the classroom, however, the committee keeps an open mind to other relevant technologies.



### **Scholarship Committee**

2017 - Current

Member

This committee is charged with selecting qualified students to receive scholarships in the McWhorter School of Building Science.

### **Thesis Course Redesign Committee**

2017 - Current

Member

This committee, along with support from the Industry Advisory Board, is re-evaluating the undergraduate capstone (BSCI 4990 - Thesis). The committee has solicited industry feedback and synthesized that data to create a plan for piloting a new, streamlined version. Testing of the new plan is currently undergoing piloting with select students in BSCI 4990 in the spring 2019 semester.

### **Undergraduate Research Committee**

2017 - Current

Member

This committee provides oversight during the structuring of a new undergraduate research program. Currently, one student has been piloted in the new program. Feedback from that pilot will be used to strengthen the future program.

### **BSCI Educational Technology Committee**

2018 - Current

Member

This committee reviews and makes recommendations about the technology that is used in the Building Science classrooms.

### **5-Year Academic Review Committee**

2018 - Anticipated End 2019

Member

This committee provides oversight for the development of faculty and administrative surveys for a faculty's 5-Year Academic Review.