

**Anoop Sattineni**  
**William A Hunt Endowed Associate Professor, Auburn University**  
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**Academic Experience:**

- September 2006 – Present: Associate professor in the McWhorter School of Building Science at Auburn University. The responsibilities fulfilled in this position included those performed as a visiting assistant professor and the following:
  - ◆ Graduate Program Officer
  - ◆ Instruction of graduate courses.
  - ◆ Direction of graduate thesis work.
  - ◆ Publish peer-reviewed articles in construction and educational journals.
  
- September 2001 – August 2006: Assistant professor in the McWhorter School of Building Science at Auburn University. The responsibilities fulfilled in this position included those performed as a visiting assistant professor and the following:
  - ◆ Instruction of graduate courses.
  - ◆ Direction of graduate thesis work.
  - ◆ Publish peer-reviewed and non-reviewed articles in construction and educational journals.
  
- September 1999 – August 2001: Visiting assistant professor in the department of Building Science at Auburn University. The responsibilities fulfilled in this position included those performed as a GTA and the following:
  - ◆ Instruction and grading of the undergraduate thesis course.
  - ◆ Interaction with faculty, staff, construction industry professionals and students in the continuous improvement of the various Building Science programs.
  - ◆ Active participation in representing the department at the college level committees, university level committees and other professional organizations.
  - ◆ Funded and non-funded research in the areas of construction management and instructional technology.
  - ◆ Active participation in the advancement of the information technology initiative at the department, college and university level.
  
- January 1997 – June 1999: Graduate teaching assistant (GTA) in the McWhorter School of Building Science at Auburn University. The responsibilities fulfilled in this position include the following:
  - ◆ Effective use of communication skills in teaching undergraduate architecture and construction management students in the areas of engineering statics and strength of materials, steel construction, design and placement of reinforced concrete and computer information technology.

- ◆ Inclusion of an on-line component in all courses taught.
- ◆ Interaction with faculty and students in the continuous improvement of all courses taught.

### **Construction Experience:**

- April 1991 – April 1994: Part-Time construction worker at Satyam Creative Constructions, Hyderabad, India. The following were the responsibilities of this position.
  - ◆ Assistant to the superintendent on the job-site.
  - ◆ Placement of formwork, reinforcement and concrete.
  - ◆ Masonry
  - ◆ Placement and finishing of marble and terrazzo floor systems.
- May 1994 – June 1996: Project Manager at Satyam Creative Constructions, Hyderabad, India. The following duties were successfully performed in this position.
  - ◆ Oversight of all job-site activities in the construction of four apartment complexes and three residential structures.
  - ◆ Interaction with clients, architects, engineers, supervisors and sub-contractors, throughout the execution of projects.
  - ◆ In charge of cash flow management, co-ordination with labor and suppliers, marketing and sales of apartment units.

### **Education:**

- Doctor of Philosophy in Built Environment, University of Salford, Manchester, UK, 2014
- Master of Science in Civil Engineering at Auburn University, Auburn, Alabama, 1999
- Bachelor of Engineering in Civil Engineering at Osmania University, Hyderabad, India, 1996.

### **Funded Research:**

Zalani, A. (Co-Principal), Roppel, T. (Co-Principal), Grant, "Tangible Design: An Actuated Approach to Convert Virtual Form Into Physical Form", Construction Industry Fund of Alabama, \$7,500.00, Awarded/Funded. (sub: December 2015, start: January 2016, end: November 2016).

Sattineni, A. (Principal), Grant, "Use of Augmented Reality Devices on the Construction Site", CAD/C Seed Grant, CCIC and McWhorter School, Auburn University, \$12,550.00, Awarded/Funded. (start: January 2015, end: December 2015).

Sattineni, A., Grant, "RFID Tags in a Building Information Model to Monitor Construction Worker Activity", Construction Industry Fund of Alabama (\$6,833) and the

College of Architecture, Design and Construction (\$5,000)., Awarded/Funded. (start: May 2009, end: August 2011).

Azhar, S. (Principal), Sattineni, A. (Co-Principal), Grant, "Using Building Information Modeling (BIM) to Facilitate Construction Safety Planning and Management at Jobsites", CADC and Alabama State Licensing Board for Construction Industry Fund, Auburn University, \$15,425.00, Awarded/Funded. (start: December 2011, end: January 2013).

Use of Wearable Computing in Construction (August 2001 – August 2002): The of Architecture, Design and Construction at Auburn University funded this \$10,000 project. This project was conducted with a co-researcher, Scott Fuller.

Use of Software in the instruction of Structures (May 2001 – August 2001): The Construction Industry Foundation of Alabama and the College of Architecture, Design and Construction at Auburn University jointly funded this \$20,000 project. This project was conducted with a co-researcher, Steve Williams.

Common Sense Structures (February 2000 - August 2000): The Construction Industry Foundation of Alabama and the College of Architecture, Design and Construction at Auburn University jointly funded this \$25,000 project.

### **Refereed Publications:**

#### **Journal Articles:**

Anoop Sattineni 50% and William Cochran 50%

*"Policies to Encourage Solar Energy Usage"*

International Journal of Sustainable Materials, Processes & Eco-Efficient 1, no. 3 (2014): 18-26

Anoop Sattineni & Harrison Bradford (April, 2011)

*"Building Information Modeling: Trends in the US Construction Industry"*

Design Principles and Practices: An International Journal, Volume 5, Issue 4, pp.187-200.

Anoop Sattineni (April, 2008)

*"Outsourcing and Off-Shoring: Options for the US Construction Industry"*

International Business & Economic Research Journal – May 2008, Volume 7, Number 5, 59-65

Anoop Sattineni and Steve Williams (April, 2008)

*"Paving New Roads to Knowledge: An Experiment to Enhance Construction Education."*

Journal of College Teaching and Learning – April 2008, Volume 5, Number 4, 39-48

Anoop Sattineni and Scott Kramer (August, 2007)

*“Concrete Beam Design: Teaching Architecture & Building Science Students Using Discovery Learning Theory”*

Design Principles and Practices-An International Journal, Volume 1, Issue 1

Anoop Sattineni and Gray Garrett (October, 2006)

*“Using Radio Frequency Identification Technology (RFID) for Tracking Tools on a Construction Job Site”*

International Journal of Technology, Knowledge and Society Volume 2, Issue 4

**Conference Proceedings:**

Kristina Williams 50%, Anoop Sattineni 30% and Alan Bugg 20%

*“Correlation between Contract Type Selection and Cost Growth in U.S Army Corps Construction Projects, Conference Proceeding”*

Proceedings of the Creative Construction Conference, 2018 in Ljubljana, Slovenia.

Procedia Engineering, 2018

John Stephens 40%, Lauren Redden 30% and Anoop Sattineni 30%.

*“Correlation between Cost Growth and Procurement Methods on USACE Construction Projects”*

Proceedings of the Associated Schools of Construction, Annual Conference,

Minneapolis, Minnesota, 2018.

Rachel Okada 50%, Anoop Sattineni 25% and April Simons 25%

*“Owner-requested Changes in the Design and Construction of Government Healthcare Facilities, Conference Proceeding”*

Proceedings of the Creative Construction Conference, 2017 in Ljubljana, Croatia.

Procedia Engineering, 2017

Anoop Sattineni 50% and James Hindman 50%

*“Photogrammetric Models using Oblique Aerial Imagery for Construction Site Surveying”*

Proceedings of the 34<sup>th</sup> International Symposium on Automation and Robotics in

Construction in Taipei, Taiwan, 2017

Alexandra Romigh 60%, Jeff Kim 20% and Anoop Sattineni 20%.

*“4D Scheduling: A Visualization Tool for Construction Field Operations”*

Proceedings of the Associated Schools of Construction, Annual Conference, Seattle,

Washington, 2017.

Anoop Sattineni 100%.

*“Use of Augmented Reality in Construction”*

Proceedings of the 25th International Conference on Economics and Business Research,

Warsaw, Poland, 2016.

Joshua Hachey 50% and Anoop Sattineni 50%.

*“Placement Impacts of Dredged Materials in the Great Lakes Region”*  
Proceedings of the 2016 IAABR/ Academic OASIS – ATHENS International Academic Conference, 2016.

Nichelle Smith 50% and Anoop Sattineni 50%  
*“Effect of Erosion on Alaskan Villages”*  
Proceedings of the Associated Schools of Construction, Annual Conference, Provo, Utah, 2016.

Anoop Sattineni 50% and Tyler Baldrige 50%.  
*“Use of Close-Range Photogrammetry Technology for Plumbing Renovation Projects”*  
Proceedings of the 9<sup>th</sup> International Symposium on Mobile Mapping Technology in Sydney, Australia, 2015

Anoop Sattineni 50% and Taylor Schmidt 50%  
*“Implementation of Mobile Devices on Jobsites in the Construction Industry”*  
Proceedings of the Creative Construction Conference, 2015 in Krakow, Poland. Procedia Engineering, 2015. 488-495

Salman Azhar 40%, Andrew Jackson 30% and Anoop Sattineni 30%.  
*“Construction Apps: A Critical Review and Analysis”*  
Proceedings of the 32<sup>nd</sup> International Symposium on Automation and Robotics in Construction in Helsinki, Finland, 2015

Anoop Sattineni 50% and William Cochran 50%  
*“Policies to Encourage Solar Energy Usage”*  
Proceedings of the International Conference on Advances in Civil, Structural and Construction Engineering, Rome, Italy, 2014

Anoop Sattineni 80% and Jennifer MacDonald 20%.  
*“5D-IM: A Case Study of an Implementation Strategy in the Construction Industry”*  
Proceedings of the 31<sup>st</sup> International Symposium on Automation and Robotics in Construction, Sydney, Australia, 2014.

Anoop Sattineni 40%, Jacqueline Thompson 20% and Dominic Adams 40%.  
*“Using Prefabricated Building Components to Obtain LEED Credits”*  
Proceedings of the Associated Schools of Construction, Annual Conference, Washington D.C, 2014.

Anoop Sattineni 50%, Steele Taylor 40% and Salman Azhar 10%.  
*“A Comparative Analysis of Flood Resistant Design and Construction Strategies in Australia and USA”*  
Proceedings of the seventh International Conference on Construction in the 21st Century (CITC-VII).

Anoop Sattineni 50%, Caitlyn Clark 50%.

*"A Proposal for Using Shipping Containers as Student Housing at a U.S. University"*  
Proceedings of the RICS COBRA conference, New Delhi (2013).

Anoop Sattineni 50% and Kyle Mead 50%.

*"Coordination Guidelines for Virtual Design and Construction"*

Proceedings of the 30<sup>th</sup> International Symposium on Automation and Robotics in Construction, Montréal, Canada, 2013. 1491-1499

Anoop Sattineni 50% and Matthew Ryan 50%.

*"A Comparison of Construction Industry Craft Training and Education in Australia and the United States"*

Proceedings of the Associated Schools of Construction, Annual Conference, San Luis Obispo, CA, 2013.

Anoop Sattineni 50% and Andrew Roberts 50%.

*"Adaptive Reuse of the 1996-2008 Summer Olympic Venues"*

Proceedings of the Creative Construction Conference 2013, Budapest, Hungary, 2013.

Anoop Sattineni 80%, Jason Underwood 15% and Farzad Khosrowshahi 5%.

*"Conceptual Framework for Site Safety Monitoring Using RFID and BIM"*

Budapest, Hungary: Creative Construction Conference 2013, 2013.

Allison Stanley 50% and Anoop Sattineni 50%.

*"Perceptions of Female Faculty in Higher Education Construction Programs"*

Proceedings of the Associated Schools of Construction, Annual Conference, Birmingham, UK, 2012.

Salman Azhar 50%, Alex Behringer 20%, Anoop Sattineni 20% and T Maqsood 10%.

*"BIM for facilitating construction safety planning and management at jobsites"*

Proceeding of the CIB W099 International Conference on "Modelling and Building Health and Safety", September 10-11, 2012, Singapore. (2012). 82-92.

Anoop Sattineni 40%, Salman Azhar 30% and Joseph Thuston\* 30%.

*"Preparing a Building Information Model for Facility Maintenance and Management"*

Proceedings of the 28<sup>th</sup> International Symposium on Automation and Robotics in Construction, Seoul, Korea, 2011

Anoop Sattineni 70% and Farzad Khosrowshahi 30%.

*"Worker Monitoring Based Decision Support Framework for Construction Field Supervision"*

Proceedings of the 2011 RICS International Research Conference (COBRA), Salford, UK, 2011

Anoop Sattineni 50% and Salman Azhar 50%

*"Techniques for Tracking RFID Tags in A BIM Model"*

Proceedings of the 27th International Symposium on Automation and Robotics in Construction, Bratislava, Slovakia, 2010

Salman Azhar 40%, Justin Brown 30% and Anoop Sattineni 30%

*“A Case Study of Building Performance Analyses Using Building Information Modeling”*,

Proceedings of the 27th International Symposium on Automation and Robotics in Construction, Bratislava, Slovakia, 2010

Salman Azhar 50%, Anoop Sattineni 30% and Michael Hein 20%

*“BIM Undergraduate Capstone Thesis: Student Perceptions and Lessons Learned”*

Proceedings of the Associated Schools of Construction, Annual Conference, Boston, MA, 2010

Anoop Sattineni 100%

*“Real-Time Management in a BIM Model with RFID and Wireless Tags”*

CIB World Congress 2010, Salford, UK, 2010

Anoop Sattineni 100%

*“Whole Building Design Approach for University Facility Managers: A Template Using Building Information Modeling”*

Proceedings of the Fifth International Conference on Construction in the 21<sup>st</sup> Century. Istanbul, Turkey, 2010

Anoop Sattineni 100%

*“Virtual Instruction with a Tablet PC and Student Reaction”*

Proceedings of the Associated Schools of Construction, Annual Conference, Gainesville, FL, 2009

Anoop Sattineni 100%

*“Construction Estimating Using Autodesk Revit with Spreadsheets and Databases”*

International Built & Human Environment Research Week, Salford, UK, 2009

Anoop Sattineni 100%

*“Choosing the Correct Building Information Modeling Software: A Case Study of Three US Construction Companies”*

International Built & Human Environment Research Week 2009, Salford, UK, 2009

Anoop Sattineni 100%

*“Outsourcing and Off-shoring: Options for the US Construction Industry”*

7<sup>th</sup> Annual International Business & Economics Research (IBER) Conference, Las Vegas, NV, 2007

Anoop Sattineni 50% and Steve Williams 50%

*“Paving New Roads to Knowledge: An Experiment to Enhance Construction Education”*

Proceedings of the College Teaching & Learning (TLC) Conference, Las Vegas, NV, 2007

Anoop Sattineni 100%

*"Interoperability in Construction Software Solutions: Re-Inventing Web Based Project Management"*

Proceedings of the International Conference for Construction in the 21st century. Athens, Greece, 2005

Anoop Sattineni 70%, Thomas White 30%

*"Automation in the Construction Industry for the Creation of Paperless Processes"*

Proceedings of the Associated Schools of Construction, Annual Conference, Cincinnati, OH, 2005

Anoop Sattineni 70%, Scott Fuller 30%

*"An Entity Relationship Model Database Schema for Implementing Knowledge Management in the Construction"*

ASC: Proceedings of the 40<sup>th</sup> Annual Conference Proceedings of the Associated Schools of Construction, Annual Conference, Provo, UT, 2004

Anoop Sattineni 100%

*"The use of eXtensible Markup Language (XML) to Create Interoperable Construction Software Applications"*

Proceedings of the Associated Schools of Construction, Annual Conference, Provo, UT, 2004

Anoop Sattineni 50%, Jacob Whiting 50%

*"Impact of Local Governmental GIS Policies to the Construction Industry"*

Proceedings of the Associated Schools of Construction, Annual Conference, Provo, UT, 2004

Anoop Sattineni 50%, Scott Fuller 50%

*"Knowledge Management in Construction"*

Proceedings of the Third International Conference on Information Systems in Engineering and Construction, Cocoa Beach, FL, 2003

Anoop Sattineni 50%, Steve Williams 50%

*"A Structure for Teaching Structures"*

Proceedings of the Associated Schools of Construction, Annual Conference, Blacksburg, VA, 2002

Anoop Sattineni 70%, Scott Fuller 30%

*"MOUS Testing In the Classroom: A Case Study"*

Proceedings of the Associated Schools of Construction, Annual Conference, Blacksburg, VA, 2002



Anoop Sattineni 70%, Roger Killingsworth 30%

*“Computer-Assisted Tutorials for Structures Instruction”*

Proceedings of the Associated Schools of Construction, Annual Conference, Blacksburg, VA, 2002

Scott Fuller 40%, Anoop Sattineni 40%, Zhihui Ding 10%

*“A Case Study: Using the Wearable Computer in the Construction Industry”*

Proceedings of the 19th International Symposium on Automation and Robotics in Construction, Washington D.C, 2002

Scott Fuller 50%, Anoop Sattineni 50%

*“Hammer to Wearable Computers: The New Construction Industry”*

Proceedings of the Second International Conference on Information Systems in Engineering and Construction, Cocoa Beach, FL, 2002

Scott Fuller 50%, Anoop Sattineni 50%

*“Investigating the use of Wearable Computer Technology in Construction”*

Proceedings of the First International Conference on Construction in the 21st Century, Miami, FL, 2002

### **Professional Affiliations:**

- Member, American Society for Civil Engineers (ASCE).
- Alumni, International Association of Students in Economics and Management (AIESEC - <http://www.aiesec.org/>).

### **Extension**

1. Extension (ACES or University extension): None
2. Continuing Education: None
3. International Activities: None
4. Clinical Practice/Outreach Activities: None

### **Service**

University Service:

- Member: Exploratory Indian Campus Committee (August 2010 - August 2011).
- Senator (2005 – 2007)
- Chair: International Student Committee (2004-2005)
- Member: International Student Committee. (2002 – 2004)
- Advisor: Auburn Racquetball Club. (2002 – 2004)
- Advisor: Indian Student Association. ( 2005 – 2009)
- Academic Computing, Committee Member. (August 2014 - December 2015).
- Academic Computing, Committee Chair. (January 2016 – August 2017).

College of Architecture Design and Construction Service:

- Member: CADC-IT Specialist Search Committee. (2001)
- Member: SEED Grant Proposal Review Committee. (2005)

Departmental Service:

- Co-Coach: ASC-National Graduate Student Competition (2019)
- Co-Coach: ASC-Region 2 Graduate Student Competition (2018)
- Co-Coach: ASC-National Graduate Student Competition (2018)
- Co-Coach: ASC-National Graduate Student Competition (2016)
- Coach: ASC-National BIM Student Competition Team (2016)
- Coach: ASC-National BIM Student Competition Team (2010)
- Coach: ASC-National Graduate Student Competition (2009)
- Co-Coach: ASC-Region-II Design-Build division Student Competition. (2008)
- Co-Coach: ASC-Region II Commercial division Student Competition. (2007)
- Member Department Head Search Committee (2007)
- Member Faculty Search Committee (2007)
- Member Faculty Search Committee (2006)
- Member Faculty Search Committee (2005)
- Coach: ASC-National Commercial division Student Competition. (2005)
- Coach: ASC-Region II Commercial division Student Competition. (2004)
- Coach: ASC-National Commercial division Student Competition. (2004)
- Co-Coach: ASC-Region II Commercial division Student Competition. (2003)
- Advisor: Sigma Lambda Chi, a construction honor society. (2002 – 2007)
- Member: BSCI Tenure and Promotion Guidelines Committee. (2002)
- Coach: ASC-Region II Commercial division Student Competition. (1999)