

MATTHEW A. HAWKS, PE, SE

matthew.hawks@gmail.com | matthewahawks.com
4513 Rockwood Drive | Raleigh, NC 27612



National Award-Winning Professional Structural Engineer | Innovative Designer | Homesteader

Education

- Georgia Institute of Technology** | Atlanta, GA 2010 – 2011
Master of Science in Civil Engineering | 3.60 / 4
- Structural Engineering Mechanics and Materials (Course-based Study)
- Virginia Polytechnic Institute and State University** | Blacksburg, VA 2003 – 2007
Bachelor of Science in Civil Engineering, Cum Laude | 3.48 / 4
- Dean's List: Spring 2004, Fall 2005, Spring 2006, Fall 2006, Spring 2007
 - Structural Engineering
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Research

- Statistical Comparison of Test Methods for Tensile Properties of Pultruded Fiber-Reinforced Polymer Composites** (unpublished) 2011
Georgia Tech, CEE 6536 *Rehabilitation of Existing Structures*, Course Research Paper
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Sustainability Experience

- Co-Proprietor** 2019 – Present
Hawks Homestead | Raleigh, NC
- *Holistic Design & Construction*: Designed whole-system, bottom-up design of homestead, including permaculture, nutrient cycling, gardening flow, and egress.
 - *Resource Cycling*: Milled trees which had to be removed for the gardens into dimensional lumber, graded, and air-dried them for garden fence and future use in auxiliary structures. Demolished driveway concrete and reused it for a new recycled-concrete driveway, paths, and recycled-concrete foundation walls.
 - *Horticultural Design*: Designed vegetable garden, food forest and mini-orchard, including considerations of plant selection, companion planting, and crop rotation.
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Industry Experience

- Senior Associate** 2014 – 2019
Uzun+Case | Raleigh, NC
- *Structural Design & Project Management*: Led structural design teams for over 40 successful projects ranging from small retail RTU upfits to a 22-story, mixed-use tower built on top of an existing five-story parking structure.
 - *Leadership & Business Development*: Implemented the strategic business venture of launching a branch office. Grew office staff by 300% in four years and developed a regional reputation for excellence in the construction industry.
 - *Research of New Construction Materials & Practices*: Investigated new construction materials and methods to ascertain suitability, costs, and best practices. Led effort of implementation and verification of design methods.
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Industry Experience (continued)

- Construction Project Manager** 2013 – 2014
RCG Ventures | Atlanta, GA
- *Capital Expenditure Projection & Tracking:* Budgeted, tracked, and managed construction for all major capital improvement projects and tenant build-outs in a portfolio of 70 anchored retail shopping centers. Estimated annualized total construction expenditure of \$10 million for year 2014.
 - *Investigative Due Diligence:* Performed assessments of properties prior to closing to identify needed expenditures for purposes of budgets and offer negotiations.
- Structural Engineer** 2011 – 2013
Uzun+Case | Atlanta, GA
- *Problem Solving & Mitigation:* Designed timely solutions to in-field errors and unforeseen issues. Examined the entire project cycle to reduce potential issues.
 - *Project Coordination:* Coordinated with architects, other design professionals, and contractors to ensure proper design and construction team communication.
 - *Engineering Analysis & Design:* Performed in-depth, high-level analyses and research. Used peer review and cross-analysis to validate input and model parameters to ensure accuracy of design and output.
- Design Engineer** 2007 – 2010
SKA Consulting Engineers | Greensboro, NC
- *Investigative Analysis & Structural Design:* Performed analysis and design for a wide range of existing buildings and new projects.

Licensing

- Professional Engineer** 2013 – Present
State of North Carolina | License No. 041638
- Structural Engineer** 2013 – Present
State of Illinois | License No. 081007539

Industry Awards

- Green Building Initiative** 2020
Green Globes Honorable Mention
- Structural Engineers Association of North Carolina** 2019
Excellence in Structural Engineering Award
- American Institute of Architects** 2016 | 2016 | 2018 | 2020 | 2021
Design Excellence Award | Honor Award | Design Merit Award | Interior Architecture Award
- Engineering News-Record Southeast** 2016 | 2020
Award of Merit
- American Concrete Institute** 2014 | 2015 | 2015 | 2015 | 2017
1st Place Award | Award of Excellence | Outstanding Achievement Award
- Georgia Engineering Alliance** 2014
Engineering Excellence Grand Award

Honors and Personal Development Awards

Chi Epsilon Honor Fraternity Inducted	2005
Eagle Scout	2001

Certifications and Training

No-Dig Gardening Charles Dowding Somerset, UK	2020
Natural Building Immersion Mud Dauber School of Natural Building Snow Camp, NC	2020
Permaculture Design Certification Wild Abundance Weaverville, NC	2019
Raleigh Neighborhood College City of Raleigh Raleigh, NC	2015

Skills

Revit	ETABS	3D Printing
SketchUp	RAM Structural System	Carpentry
AutoCAD	RAM Elements	GIS
Fusion360	Microsoft Office Suite	Seed Saving

Presentations

501 Fayetteville Street – FNB Tower Structural Study Presented to the City of Raleigh Planning and Development Department	2018
Lunch & Learn Presentations Over 30 Presentations on Various Topics for Architectural Clients	2014 – 2018
<ul style="list-style-type: none"> • Topics included Architecturally Exposed Structural Steel (AESS), Existing Building Codes, Concrete Systems for Architectural Designers 	

Professional and Community Organizations

Olympic Mountain Earthwisdom Circle Committee Member	2020 – Present
Innovate Raleigh Summit Advocacy Team Member	2017
Raleigh Chamber Young Professionals Network Member, Programs Committee	2014 – 2018
Structural Engineers Association of North Carolina Professional Member	2014 – Present
American Society of Civil Engineers Professional Member	2008 – Present