

## Stephen J Kuyath

Associate Professor, Engineering Technology, College of Engineering  
University of North Carolina at Charlotte  
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### Education:

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- **Ph.D.**, Information Technology, University of North Carolina at Charlotte, Charlotte, NC, 2008
  - **M.S.**, Computer Science, University of North Carolina at Charlotte, Charlotte, NC, 1993
  - **B.S.E.T.**, Electrical Engineering Technology, University of North Carolina at Charlotte, Charlotte, NC, 1987
  - **A.A.S.**, Electronics Engineering Technology, Central Piedmont Community College, Charlotte, NC, 1983
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### Professional Appointments:

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- **Associate Professor**, Engineering Technology Department, College of Engineering, **University of North Carolina at Charlotte**, Charlotte, NC, July 2007 – present
  - **Assistant Professor**, Engineering Technology Department, College of Engineering, **University of North Carolina at Charlotte**, Charlotte, NC, July 2001 – June 2007
  - **Director**, Information Technology Division, **Central Piedmont Community College**, Charlotte, NC, July 2000 – July 2001
  - **Director**, Regional Information Technology Consortium (RITC) Project, **Central Piedmont Community College**, Charlotte, NC, October 1999 – July 2001
  - **Program Chair**, Computer, Electrical, and Electronics Engineering Technology, **Central Piedmont Community College**, Charlotte, NC, November 1994 – October 1999
  - **Instructor**, Computer, Electrical, and Electronics Engineering Technology, **Central Piedmont Community College**, Charlotte, NC, September 1987 – October 1999
  - **Adjunct Instructor**, Computer, Electrical, and Electronics Engineering Technology, **Central Piedmont Community College**, Charlotte, NC, September 1983 – September 1987
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### Professional Society Memberships and Offices Held:

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- Educational Activities Director: Institute of Electrical and Electronics Engineers, Charlotte Section, 2005 – 2006
- Student Activities Director: Institute of Electrical and Electronics Engineers, Charlotte Section, 2004 – 2005
- Secretary: Institute of Electrical and Electronics Engineers, Charlotte Section, 2003 – 2004
- Member: American Society of Engineering Educators, 2001 – present
- Member: Institute of Electrical and Electronics Engineers, 2001 – present
- Member: Institute of Electrical and Electronics Engineers Education Society, 2001 – present

- Member: Institute of Electrical and Electronics Engineers Computer Society, 2001 – present
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### **Honors and Awards:**

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- **Technological Education Initiative Scholarship Recipient**, Accreditation Board of Engineering and Technology, 2003
  - **Tau Alpha Pi, Teacher of the Year Award**, University of North Carolina at Charlotte, 2002
  - **Instructor of the Year**: Central Piedmont Community College, 1999
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### **Publications:**

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#### **Peer Reviewed Journal Articles and Conference Proceedings:**

1. **Cho, C.S. and Kuyath, S.J.**, “The Effect of Panopto on Academic Performance and Satisfaction of Traditional/Distance Education Students,” *Proceedings of the 2007 American Society for Engineering Education Annual Conference & Exposition*, Louisville, KY, June 2010
2. **Kuyath, S.J., Mickelson, R.A., Saydam, A., and Winter, S.J.**, “The Effects of Instant Messaging on Distance Learning Outcomes,” *Proceedings of the World Council of Comparative Education Societies XIV WORLD CONGRESS*, Istanbul, Turkey, June 2010
3. **Kuyath, S.J. and Winter, S.J.**, “Distance Education Communications: The Social Presence and Media Richness of Synchronous and Asynchronous Media,” *Journal of Asynchronous Learning Networks*, **December, 2006**
4. **Gehrig, B., Abrams, L., Bosley, D, Conrad, J., Kuyath, S.**, “The TECT Workshop: Raising High School Teachers’ and Guidance Counselors’ Self-Efficacy in Counseling Students about Engineering Careers and Majors,” *Proceedings of the 2009 American Society for Engineering Education Annual Conference & Exposition*, Austin, TX, 2009
5. **Gehrig, B., Kuyath, S., Sharer, D. Brizendine, A.**, “A Comprehensive and Integrated Approach to Increase Enrollments in Engineering Technology,” *Proceedings of the 2008 American Society for Engineering Education Annual Conference & Exposition*, Pittsburg, PA, 2008
6. **Gehrig, B., Abrams, L., Bosley, D, Conrad, J., Kuyath, S., Denney, D., Teague, K., Welch, W.**, “Expanding Engineering Diversity by Teaching Engineering to Counselors and Teachers,” *Proceedings of the 2007 American Society for Engineering Education Annual Conference & Exposition*, Honolulu, HI, 2007
7. **Watkins, G.K. and Kuyath, S.J.**, “Diversity in Engineering Technology: An NSF Sponsored Project,” *Proceedings of the 2007 CIEC Conference*, Palm Springs, CA. February 2007: **Nominated for Best Paper**
8. **Kuyath, S.J. and Sharer, D.L.**, “Recruiting Underrepresented Minorities to Engineering and Engineering Technology,” *Proceedings of the 2006 American Society for Engineering Education Annual Conference & Exposition*, Chicago, IL, June 2006
9. **Kuyath, S.J. and Sharer, D.L.**, “Summer Camps in Engineering Technology: Lessons Learned,” *Proceedings of the 2006 American Society for Engineering Education Annual Conference & Exposition*, Chicago, IL, June 2006 **Nominated for Best Paper**
10. **Kuyath, S.J.**, “Applying The Theory Of Planned Behavior: Recruiting Underrepresented

Minorities To Engineering And Engineering Technology,” *Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition*, Portland, Or, June 2005

- 11. Kuyath, S.J., Murphy, D.L., and Sharer D. L.**, “Summer Camps in Engineering Technology,” *Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition*, Portland, Or, June 2005
- 12. Kuyath, S.J.**, “Diversity in Engineering Technology: An NSF Project,” *Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition*, Salt Lake City, UT, June 2004
- 13. Kuyath, S.J., Yoder, L.**, “Diversity in Engineering Technology: The Competitions,” *Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition*, Salt Lake City, UT, June 2004
- 14. Kuyath, S.J., Cox, V.**, “Diversity in Engineering Technology: The Community College Perspective,” *Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition*, Salt Lake City, UT, June 2004
- 15. Kuyath, S.J., Owen, T.G. , Sharer D. L., Murphy, D.L., Kimble, J.T., Englebert, M.F.** “Development of an Electrical Engineering Technology Distance Education Curriculum,” *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition*, Nashville, TN, June 2003
- 16. Kuyath, S.J.**, “An Interactive Lecture for Web-Based ET Classes,” *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition*, Nashville, TN, June 2003
- 17. Kuyath, S.J., Townley, R.A.**, “A Collaborative Effort at Program Development,” *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition*, Nashville, TN, June 2003
- 18. Kuyath, S.J., Owen, T.G.**, “Adding the First Two Years to a 2+2 Electrical Engineering Technology Program,” *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition*, Nashville, TN, June 2003
- 19. Kuyath, S.J.**, “How Computer Animations Make Teaching Complex Topics More Effective and Efficient,” *Proceedings of the 2002 American Society for Engineering Education Annual Conference & Exposition*, Montreal, Canada, June 2002

**Other Conference Presentations:**

- 20. Kuyath, S.J.**, “The RITC Project: Integrating Skills Standards,” The League for Innovation Conference, Atlanta, GA, March 2001
- 21. Kuyath, S.J.**, “The Regional Information Technology Consortium: A Model for the 21st Century,” Special Session at The League for Innovation Conference, Anaheim, CA, November 2000
- 22. Kuyath, S.J.**, “Strategies to Integrate Skills Standards into Existing Curricula,” The National Coalition for Advanced Technology Centers Conference, Charlotte, NC, October 2000
- 23. Kuyath, S.J.**, “How to Integrate Skills Standards into Existing Curricula,” The NC Community College Instructors Conference, Greensboro, NC, October 2000
- 24. Kuyath, S.J.**, “National Skills Standards in the IT Industry,” NC Electronics and Information Technology Association Conference, Raleigh, NC, September 2000

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**Research:**

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**Funded Research:****Total Funding Awarded: \$2,524,055**

- ***Multimedia Enhancement for Traditional and Virtual Electrical Engineering Technology Classes***, Curriculum and Instructional Development Grant, UNC Charlotte, 2001, **PI, Total Award: \$5,094, Status: Awarded**
- ***Diversity in Engineering Technology***, The National Science Foundation, 2003, (3 year project), **PI, Total Award: \$898,561, Status: Awarded**
- ***Enhancing Diversity in Engineering Technology***, The National Science Foundation, 2006, (3 year project), **PI (year 3), Total Award: \$810,000, Status: Awarded**
- ***TECT: Teaching Engineering to Counselors and Teachers***, The National Science Foundation, 2006, (3 year project), **Co-PI, Total Award: \$300,000, Status: Awarded**
- ***COMETS (Career Opportunities for Meritorious Engineering Technology Scholars)***, The National Science Foundation, 2006, (3 year project), **PI, Total Award: \$500,000, Status: Awarded**
- ***The Effects of Panopto on Academic Performance and Satisfaction of Distance Education Students***, Curriculum and Instruction Development, UNC Charlotte, **PI, Total Award: \$10,200, Status: Awarded**

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**Institutional and Professional Service:**

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**Engineering Technology Department:**

- Engineering Technology Departmental Review Committee, 2006-present
- Electrical Engineering Technology Focused Area Improvement Team, 2002 – present
- Freshman Engineering Technology Focused Area Improvement Team, 2002 – present
- Engineering Technology Department TAC/ABET Outcomes, Objectives and Assessment Strategies Committee, Co-chair, 2002 – 2007
- Explore UNC Charlotte, ET Department Representative, 2002 – present
- Community college informational/recruitment visitations, 2002 – present
- Library Acquisitions Committee, Engineering Technology Department Representative, 2003
- Participant, Career and Technology Expo, Freedom Library, Charlotte, NC, 2004
- Participant, Career and Technology Expo, Iredell County, 2003
- Hosted more than 12 JETS competitions at participating community colleges and UNC Charlotte (Diversity in Engineering Project), 2003-2010
- Over 100 high school visits for talks and problem/tutorial sessions for JETS clubs, 2003-2010
- Faculty Council: 2006-2008
- Faculty Council Alternate: 2010

- Book Review: ***Digital Design, 4/e*** by M. Morris Mano & Michael D. Ciletti, 2010

### **College of Engineering:**

- College of Engineering Faculty Organization Parliamentarian, 2002 & 2003
- College of Engineering Associate Dean Search Committee, Member, 2002
- College of Engineering Computer Facilities Committee, 2002

### **UNC Charlotte:**

- Faculty Council: 2006-present
- Faculty Advisory Library Committee, Member, 2002
- FCTeL (Faculty Center for Teaching and e-Learning) Advisory Committee, Member, 2002 & 2003
- Faculty Competitive Grants Committee, Alternate, 2003
- Host, "Project Leads-the-Way" Conference for high school representatives, 2003
- Participant, Charlotte Housing Authority Scholarship Breakfast, 2003

### **Community:**

- Central Piedmont Community College, Computer, Electrical and Electronics Technology **Advisory Board Member**, 2001 – 2002
- Mitchell Community College Electronics Engineering Technology **Advisory Board Member**, 2002 – 2005
- **Proposal Reviewer**: NSF ATE, 2003
- **Secretary**: Institute of Electrical and Electronics Engineers, Charlotte Section, 2003 – 2004
- **Student Activities Director**: Institute of Electrical and Electronics Engineers, Charlotte Section, 2004 – 2005
- **Educational Activities Director**: Institute of Electrical and Electronics Engineers, Charlotte Section, 2005 – 2006
- **Proposal Reviewer**: NSF CCLI, 2009

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### **Teaching:**

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#### **Courses Taught at UNC Charlotte:**

- **ETGR 1100**: Engineering Technology Computer Applications
- **ETGR 3000**: Special Topics in Engineering Technology
  - **Developed "Microprocessor Circuit Design and IC Interfacing" to teach 1st Summer Session 2006**

- **ETEE 2213: Introduction to Microprocessors**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  
- **ETEE 3183: Digital Logic Design**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  - Used for both traditional on campus and distance education classes
  
- **ETEE 3255: ETEE Laboratory VII**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  - Used for both traditional on campus and distance education classes
  
- **ETEE 3275: Integrated Circuit Applications**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  - Used for both traditional on campus and distance education classes
  
- **ETEE 3285: Assembly Language Programming**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  - Used for both traditional on campus and distance education classes
  
- **ETEE 3286: Microcomputer Applications**
  - **Developed for traditional on campus courses at UNC Charlotte and presentation through BlackBoard**
  - Used for both traditional on campus and distance education classes