

# Proposal



## IEEE SoutheastCon 2025

*“Technology for the Next Quarter Century.”*

### North Carolina Council

### Charlotte/Concord, North Carolina

**Proposed Conference Dates & Location:**

**March 27, 2025 through March 30, 2025**

**Embassy Suites Charlotte/Concord**



EMBASSY SUITES  
HOTEL®

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Charlotte-Concord  
5400 John Q Hammons Dr NW, Concord, NC 28027  
704-455-8200

### Contact Person:

Charles Lord ([c.j.lord@ieee.org](mailto:c.j.lord@ieee.org))

## Executive Summary

The NC Council proposes that SoutheastCon 2025 be held at the Charlotte-Concord, NC Embassy Suites and Convention Center. The events will be held from Thursday, March 27 to Sunday, March 30, 2025. The conference will include the standard sub-conferences (Technical, Student, and Region 3). The primary goals will be to engage as many students as possible by making the student registration as affordable as possible, without financially burdening the Region 3 and Technical attendees.

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## Attachments/Reference Materials

- A1. Budget Summary Sheet
- A2. Financial Reporting Tools Output
- A3. Embassy Suites Budgetary Quote
- A4. Embassy Suites Convention Center Property Details and Meeting Room Capacities
- A5. Embassy Suites Convention Center Layout Detail
- A6. Letter of Support from the NC Council

# 1 Conference Overview

## 1.1 Goals

The SoutheastCon 2025 committee established the following goals:

- Create an affordable conference for all students, including conference registration, accommodations, and food;
- Create a conference for undergraduate students where they can demonstrate their skills in contests, attend professional development workshops, and talk with company recruiters;
- Create a conference for graduate students where they can gain experience in writing for and presenting at an IEEE Conference;
- Create a conference for professionals where they can present relevant research or development results and attend professional development workshops;
- Create an environment conducive for the Region 3 leadership to conduct their semi-annual meeting;
- Assist in the increase in membership in the Region through a registration structure that encourages membership applications;
- Encourage communications and mentoring between the 2025 team and future teams; and
- Generate a modest surplus for the organizations sponsoring the conference.

## 1.2 Proposed Date

The proposed dates for the conference are March 27-30, 2025. These dates are clear of any major events that could occur in Charlotte, like basketball tournaments, car shows, or NASCAR races. The date avoids Easter and Palm Sunday (April 20 and 13), so it also avoids K-12 holidays for the area (and likely the Region). There is a possibility that this will fall on the week of some schools' spring break holidays, but this cannot be avoided. The dates do not conflict with any UNC Charlotte events, spring break, or holidays.

## 1.3 Proposed Venue

The event will be held at the Charlotte-Concord Embassy Suites Hotel and Conference Center. This hotel was the site of IEEE SoutheastCon 2010 and 2017 and was conducive to holding a very successful conference those years. The hotel currently has over 300 rooms. This hotel currently has over 40,000 sq. feet of convention space.

The cost of a room is a flat rate of \$209 per night (plus local taxes) and can accommodate up to four students comfortably. Some of the amenities offered as a concession to the IEEE is free breakfast for all attendees, and free evening manager's reception.

## 1.4 Proposed Theme

The proposed theme for IEEE SoutheastCon 2025 is *"Technology for the Next Quarter Century."* This theme reflects the 25<sup>th</sup> year in the Millennium..

## 1.5 Benefits of Charlotte/Concord as a Site

Charlotte is the largest city between Atlanta and Washington, DC. It is the 21<sup>st</sup> largest in the US and one of the fastest growing. The Charlotte metropolitan area is home to the headquarters of Duke Energy, Wachovia Bank, Bank of America, Family Dollar, Goodrich Corporation, Lowe's Hardware, many NASCAR teams, and many other businesses.

Charlotte's airport serves as a hub for American Airlines (formerly US Air). Nearly all Region 3 cities with an airport have a direct flight to Charlotte on at least one airline. Interstate 85 and 77 run through the city, and Interstate 40 is forty miles north of the conference site. Economy Carrier Allegiant Airlines is beginning service to Concord Regional Airport, only three miles from the hotel.

The metropolitan area has many activities available for visitors, including some of the largest tourist attractions in central NC (Concord Mills Mall – ½ mile away from the conference site), Lowes motor Speedway (½ mile away from the conference site), the NASCAR Hall of Fame, the US Whitewater Center, and numerous museums.

## 1.6 General Organization (volunteers)

The following volunteers will form the core of the SoutheastCon 2025 team. A full list of volunteers is still being recruited. We anticipate to recruit heavily from all five sections in NC and will use this as a way to re-energize the Winston-Salem, Central NC, and Charlotte sections as face-to-face meetings resume.

- General Chair: Charles Lord ([c.j.lord@ieee.org](mailto:c.j.lord@ieee.org)) (Western NC Section, NC Council Chair, SoutheastCon 1995/2017/2020 Chair)
- Co-Chair: Rodney Radford
- Secretary: Susanne Proudlove (2020 Secretary, ENCS)
- Treasurer: Audie (AJ) Burke (WNCS)
- Registration Chair: Mark Stokes
- Web/social: Matthew Ackerman
- Mentor: Eric Gregorian (R3 Dir 2024-25)
- Technical Conference Chair: Jim Conrad (Past Dir / 2010 Chair/ UNCC / Charlotte Section)
- Student Conference Chair: Dr. Samuel Shue (UNC-Charlotte, Charlotte Section)
  - Hardware Competition Lead/mentor: Rodney Radford (ENCS)
- Exhibits / Sponsors Chair: Robert Cox (UNCC)
- Local Arrangements/Hospitality/Catering: Ellen Radford (2020)

## 2 Location Details

### 2.1 City

Charlotte is the largest city in the state of North Carolina and the 17th largest city in the United States. It has a 2014 estimated population of approximately 809,958. According to 2006

estimates, Charlotte is the 5th-fastest-growing among large U.S. cities as well as the fastest-growing city on the East Coast and the largest metro area between Atlanta and Washington, D.C. As of 2020, the Charlotte metropolitan area had a population of 2,680,000. The city of Charlotte is actually almost twice as large as the city of Atlanta, although the Atlanta metro area is twice the size of the Charlotte metro area (Jacksonville, FL is the largest city proper at 961,000).

The city's economy has and is continuing to mature starting in the 1990s and continuing through the 2000s to become dominated by financial services, as well as retail commerce and power industries. Charlotte is also a major center in the US motorsports industry, with NASCAR having multiple offices in and around Charlotte. Approximately 75% of the industry's employees and drivers are based within two hours of downtown Charlotte. Charlotte is also the home of the NASCAR Hall of Fame.

“The average March high temperature is 64 degrees F, and the average low is 42 degrees F.”

## **2.2 Transportation**

The proposed site for IEEE SoutheastCon 2025 is The Charlotte-Concord Embassy Suites Hotel Spa and Golf Resort. This hotel is located less than a mile from Exit 49 on I-85 and 19 miles (22 minutes) from Charlotte Douglas International Airport (CLT) and 3 miles from the Concord Regional Airport (JQF). This location is also near to intersections with both I-77 and I-40, making the hotel quite accessible by car from most of Region 3. We plan to arrange a shuttle bus service from CLT to the hotel for those who wish to arrive by air (this was done in 2017)..

## **2.3 Venue and Amenities**

The Embassy Suites Charlotte-Concord was host to the 2010 and 2017 conferences and has retained some of the staff from that time period. They are therefore familiar with the complex structure and operation of IEEE SoutheastCon. They feature many favorable amenities: nice room layout, coffee shop and bar, in-house spa, exercise facilities, and indoor pool / hot tub. Breakfast and an evening Manager’s reception are included in the sleeping room price for all participants, up to 4/room to accommodate students.

The adjacent conference facility is operated by the Embassy so it is part of the hotel contract. The Embassy also has a full-service restaurant open for lunch and dinner, a bar, and Starbucks coffee shop that also offers a light menu of salads, sandwiches, and pastries.

## **2.4 Other Local Hotels and Restaurants**

The Embassy Suites has over eight hotels and forty restaurants within a mile of the property. Restaurants include most major fast food chains (McDonalds, Arby’s, Wendy’s KFC, Bojangles), barbecue and sandwich shops (Subway, Quiznos, Sonny’s BBQ), and sit down restaurants (Cracker Barrel, Bob Evans, Ruby Tuesdays, Olive Garden, On the Border, Texas Roadhouse, TGI Fridays, Japanese Steak House). The Embassy also has a full-service restaurant open for lunch and dinner, a bar, and coffee shop that also offers a light menu of salads, sandwiches, and pastries. The 2025 committee will establish an arrangement with one of the local hotels for overflow accommodation. This hotel is adjacent to the hotel,

## 3 Conference Details

### 3.1 Region 3 Meeting

The Region 3 meeting portion of IEEE SoutheastCon 2025 will be set up to accommodate the needs of the Region 3 committee and executive committee (excom). We will arrange for a minimum of:

- Tutorials on Thursday
- Leadership and R3 organizational meetings on Friday
- Area meetings Friday evening
- SPC Dinner and Meeting Friday (onsite or offsite)
- Typical meetings Saturday including Fincom breakfast meeting and a minimum of three breakouts
- Awards Banquet Saturday evening
- Region 3 meeting Sunday morning

General Chair Charles Lord will coordinate the meeting needs with the 2024-2025 Region 3 Delegate/Director and provide what resources are needed.

### 3.2 Technical Conference

The technical conference portion of IEEE SoutheastCon 2025 will be comprised of tutorial sessions, technical paper sessions, and poster sessions. This arrangement serves the diverse needs of this regional conference, while fulfilling IEEE missions in education and professional development. In addition, the proposed format supports the technical, professional, and developmental needs of industry, academia, and students.

Following the precedent of prior SoutheastCon conferences, the bulk of the technical conference is planned to take place on Friday and Saturday. However, tutorial sessions will be planned for Thursday (and possibly Friday), and a block of rooms will be available for those who want to arrive Wednesday night (Note that the vast majority of tutorials are attended by local (NC/SC) people). Technical paper sessions will be primarily take place on Friday afternoon and all day Saturday. Poster sessions will be conducted in parallel with the technical paper sessions, providing attendees a rich technical conference experience.

The technical paper sessions will follow a rigorous peer review under supervision of a technical committee. As is appropriate for this regional conference, a wide range of diverse topics will be solicited, such as topics in Circuits and Devices, Communications and Information Systems, Engineering in Medicine and Biology, Intelligent Systems and Control, Networks and Distributed Systems, Nanotechnology and Microelectronics, Computing, Electronic, Electrical, and Computer Engineering, General Engineering and Industrial Applications, Education, Technology, and Globalization, Financial Planning in Engineering Profession. Prior SoutheastCon technical innovations will be considered for adoption in support of the paper submission and review process. Abstracts of un-refereed papers will be solicited for poster sessions.

The technical program will use the same proven registration and paper submission system used for recent SoutheastCon conferences (EDAS and RegFox)

### 3.3 Student Conference

**Hardware Contest:** The hardware competition, the centerpiece of the student conference, will be allocated ample room for the competition as well as for practice/repair. We will arrange with the Region 3 meetings to allow all to observe the hardware finals.

**Software Contest:** The team will organize and run the programming competition. We will ensure it adheres to the guidelines of the IEEE Computer Society competition.

**Other Contests:** We will host whatever student competitions that the R3SAC requests.

**Professional Development:** We are considering several profession development workshops on Friday and Saturday specifically for students. Several practicing engineers will talk about various technologies, business practices, and experiences as a young engineer.

**Career Fair:** Another highlight, in conjunction with the exhibits, is a student career fair. We will carry on the tradition planned by previous IEEE SoutheastCons and have a career fair solely for undergraduate and graduate students.

### 3.4 Guest (Spouse's) Program

The area surrounding the proposed site of IEEE SoutheastCon 2025 offers a plethora of activities and attractions for young and old, male and female alike. Lowes Motor Speedway, the Concord Mills mega-mall including an Outdoor World superstore, a luxurious spa within the hotel, and an adjacent golf course provide a wealth of activities. The guest program is anticipated to include organized visits to many of these locales. This will be organized from a staffed hospitality suite in the hotel. We are currently working on the group to host this function.

## 4 Project Management Plan

The conference will adhere to the professional practices identified in the Project Management Institutes Project Management Body of Knowledge. This means that this effort will be planned, controlled, and monitored like an industry-based project. Our mentor and Technical Program Chair Jim Conrad, is a PMP and will keep us on schedule and under budget.

### 4.1 Finances

**Seed Money:** The initial seed money for IEEE SoutheastCon 2025 will be a maximum of \$10,000 divided as follows:

- North Carolina Council           \$5000.00
- Region 3                               \$5000.00

Commitments have been already made by the NC Council for providing the above funding upon request.

**IEEE Sponsorship:** IEEE SoutheastCon 2025 will be sponsored equally by the following:

- North Carolina Council           50%
- Region 3                               50%

**Sponsorship:** The IEEE SoutheastCon 2025 committee has already been discussing involvement of local industry in the conference. Several companies that indicated interest in 2010 and 2017 (as well as previous SoutheastCons) will be approached, including the anticipation of participating in exhibits, participating in the student job fair, and in sponsorships. Companies that have expressed an interest in 2010 include: Microsoft (sponsorship, perhaps the Saturday dinner), Duke Energy, AREVA, EPRI, and Schweitzer Engineering Labs. Lee Stogner is already soliciting sponsors and exhibitors and we anticipate garnering at least as much financial support as we did at the successful 2010 and 2017 conferences.

**Registration Fees:** The registration fees will be structured to encourage as many students as possible to attend (and to become IEEE members, if they are not already). The entire fee structure will be highly dependent on the success of our sponsorship efforts. We have already started these efforts and are optimistic we will be able to secure a minimum of \$30,000 in sponsorships, exhibit registrations, and student job fair registrations.

**Budget:** The IEEE SoutheastCon 2025 budget is listed in Appendix A1. We anticipate a surplus will be generated, and will take fiscal steps to ensure we will not lose money with this conference. We will use the required budget forms to report status through the project.

**Insurance:** The required IEEE insurance policy will be secured for this conference.

## 4.2 Communications/Reporting

One additional operating goal will be to have close communications with the preceding and following conference organizing committees.

As the committee is from locations across the state, regular teleconferencing meetings will be held using WebEx and Zoom as well as other online tools. These mechanisms will allow organizers to meet in a “virtual” environment using webcams, microphones, their own PCs, and the Internet with minimum travel expenses. The committee will hold occasional live meetings, most likely in Charlotte.

## 4.3 Work Breakdown Structure and Schedule

Like all good project plans, a comprehensive Work Breakdown Structure and Schedule will be created. We have the advantage of having the plans from previous IEEE SoutheastCons. We will modify and augment this plan to ensure we account for all major and minor tasks that must be performed. This plan will be made available to all future IEEE SoutheastCons. The committee will track their progress to the plan. Another goal of this conference is to fully document the entire process in the Region 3 SoutheastCon Conference Manual.



## **4.4 Risk Assessment**

The IEEE SoutheastCon 2025 committee will use established good project management principles as practiced by recent SoutheastCon committees to limit financial exposure and maximize use of available funds.

## **4.5 Website and Advertising**

Consistent with recent years, the IEEE SoutheastCon 2025 website will be hosted at the domain [www.southeastcon.com/.org](http://www.southeastcon.com/.org), with the root directory at [www.southeastcon.com/2025](http://www.southeastcon.com/2025). Separate areas will be set up for student activities and internal committee management purposes (paper management, reporting, etc).

Advertising for IEEE SoutheastCon 2025 will consist of:

- Call for papers, distributed at IEEE SoutheastCon 2024 in Atlanta
- Call for papers, sent through Region 3 e-notice and newsletter (electronic edition)
- Call for papers, sent through the technical society e-notice mailing lists
- Publishing through IEEE Conference listing
- Distribution to all Region 3 colleges and universities
- Distribution to colleges and universities outside of Region 3
- Calendar posting in major periodicals wherever possible at no cost
- Cross-linked web ads when possible at no cost
- Direct contact with major employers in R3
- Other opportunities as identified

## **4.6 Registration**

IEEE SoutheastCon 2025 will use the same registration system as the previous years (RegFox) which should be proven after use in 2022-2024. Meal tickets are also managed, allowing for efficient meal planning.