

1. **Name:** Nabila BouSaba

Academic Rank: Faculty Associate

2. **Degrees:**

BSEE	North Carolina Agriculture and technical state University	1982
MSEE	North Carolina Agriculture and technical state University	1986

3. **UNC Charlotte (number of years = 10)**

- Faculty Associate: 2008 - present
- Lecturer: 2006 – 2007

4. **Other related experience:**

- Development Test Engineer, Solectron Technology Charlotte NC, 1998-2006
- Manager and Functional Test Engineer, IBM Corporation Charlotte NC, 1984-1998

5. **Certifications or professional registrations:** Professional Engineer, NC

6. **Current membership in professional organizations**

- IEEE (Senior Member), IEEE Computer Society, Women In Engineering Society (2008 – present)
- ASEE (2008 – present)

7. **Honors and awards:**

- Principal Investigator (PI) for four grants from NASA “NC Space Grant program to support the IEEE Hardware Competition team” participating in the followings IEEE Southeast Conferences (2016, 2015,2014 and 2013), each team received 5K in support of the development of the robot.
- PI on a grant from NASA NC Space Grant to support two Senior Design Projects in the fall 2013 spring 2014 (Prostatic Arm control and Control of an Arial Vehicle) projects.
- Co-PI on an Entrepreneurship Grant from VentureWell (for \$41,250) to support the development of new course for Engineer in Entrepreneurship. Duration of the grant from April 2012-August 2016. Dr. Conrad and I provided mentoring and financial support to five Innovative Senior Design teams from this grant.
- Co-PI on a grant for teaching and learning that supported the development of student’s oral communication and presentation from 1/12012 to 12/31/2013
- PI on a grant from NASA NC Space Grant to support the “Autonomous Virtual Presence” for a senior design project, duration May 2011- June 2012

8. **Institutional and professional service in the last five years:**

- UNC Charlotte College of Engineering Senior Design Committee, 2008 - Present.
- IEEE Charlotte Section Women in Engineering Chair, 2011 – Present.

9. **Principal publications of last five years:**

- Nabila BouSaba and James M. Conrad, “Promoting Entrepreneurial Skills through Senior Design Projects,” *Proceedings of the 2015 ASEE Conference*, Seattle, WA, June 2015.
- Wesley Johnson, Mustafa Alshafai, Murtadha Alahmad, Joel Woods, Nabila A. Bousaba, Abasifreke Ebong, “Design Methodology For Identifying Optimum Photovoltaic System

Configuration at UNC Charlotte,” *Proceedings of the 2015 IEEE SoutheastCon*, Ft. Lauderdale, FL, April 2015.

- Nabila A. BouSaba, James M. Conrad, “Recent Graduates Perspectives on Innovation and Entrepreneurship and the Creation of New Entrepreneurship Course,” *Proceedings of the 2014 ASEE Conference*, Indianapolis, IN, June 2014.
- Nabila BouSaba, Jean Coco, James M. Conrad, Robert Cox, and Mehdi Miri, “Incorporating Oral Presentations into Electrical and Computer Engineering Design Courses: A Four-Course Study,” *Proceedings of the 2014 ASEE Conference*, Indianapolis, IN, June 2014.
- Samer Hawayek, Claude Hargrove and Nabila A. Bousaba “ Real-Time Bluetooth Communication Between an FPGA Based Embedded System and Android Phone” *Proceedings of the 2013 IEEE SoutheastCon*, Jacksonville, FL, April 2013.
- Alex Cortner, James M Conrad and Nabila A. Bousaba, “Autonomous All-Terrain Vehicle Steering,” *Proceedings of the 2012 IEEE SoutheastCon*, Orlando, FL, April 2012.
- Nabila BouSaba and James M. Conrad, “Keys to Success in the IEEE Hardware Competition,” *Proceedings of the 2011 ASEE Conference*, Vancouver, BC, June 2011.
- Peter L Schmidt, Daniel Hoch, Nabila BouSaba, William Heybruck, Deborah L Sharer, Valentina Cecchi, S. Gary Teng and Elizabeth Sharer, “An optimization routine for assigning students to capstone project groups,” *Proceedings of the 2011 ASEE Conference*, Vancouver, BC, June 2011.

10. Professional development activities in the last five years:

- IEEE SoutheastCon Conference -Technical Program, 2011-2015 (presenter most years).
- ASEE Annual Conference - Technical Program, 2011-2015 (presenter most years).
- UNC Charlotte Faculty Leadership UNC Charlotte Initiative, 2011-2012.
- UNC Charlotte Workshop on Freshman Education - Top 40 Freshman Success Academy, Summer/Fall 2013.
- UNC Charlotte Workshop on Communicating through the Curriculum, May 10-11, 2012