

Introduction to Instructor

Embedded Interface Design

with **Bruce Montgomery**



Before We Start – Task 1

- Get a marker and a piece of card stock
- Fold it in half to make a little tent
- Write the name you'd like to be called on that
- Face the name towards me
- Try to remember to bring that to class for the next several weeks



Your Instructor - Academics

Bruce R. Montgomery, PhD, PMP

Academic History

- B.Sci. Engineering in Computer & Info Sci., University of Florida (Gators), Gainesville, FL
- M.A. Mathematics (Statistics/Comp. Sci.), Trenton State College (Lions), Ewing, NJ
 - Now TSC is The College of New Jersey
- Ph.D. Computer Info. Systems, Nova Southeastern University (Sharks), Ft. Lauderdale, FL
 - Dissertation on Usability Methods for Discrete Event Simulations [1]
- Certified Project Management Professional, PMI



Your Instructor - Academics

- Sr. Instructor
 - Dept. of Electrical, Computer, and Energy Engineering and
 - Dept. of Computer Science Department
- For ECEE
 - ECEN 5783 Embedded Interface Design (F)
 - Taught 3 times before this semester, developed the class
 - ECEN 5813 Principles of Embedded Software (F/S) – New (for me)
- For CS
 - CSCI 4/5448 Object-Oriented Analysis and Design
 - Taught in Spring semester 2019
 - CSCI 7000 Professional Masters Project – New for Spring 2020



Your Instructor - Professional

35 Years in Industry for Software, Analysis, and Engineering

- Pall Corporation – Software Engineer, Graphics Systems Manager (CAD/CAE, Software)
- David Sarnoff Research Center – Member, Technical Staff (CAD/CAE, Modeling & Analysis, Software)
- Cummins Engine Company – Technical Advisor (Reliability, Advanced Concepts, Software)
- Structural Dynamics Research Corp. – Sr. Software Engineer/Trainer – Integration (CAD/CAE, Software)
- Edwards Fire Systems – Global Lead, Software & Program Mgmt (Software, Usability, Embedded Devices, Project Management)
- Inovonics – Vice President of Engineering (Embedded Devices, Software, Usability, Project Management)
- Co-inventor on several patents

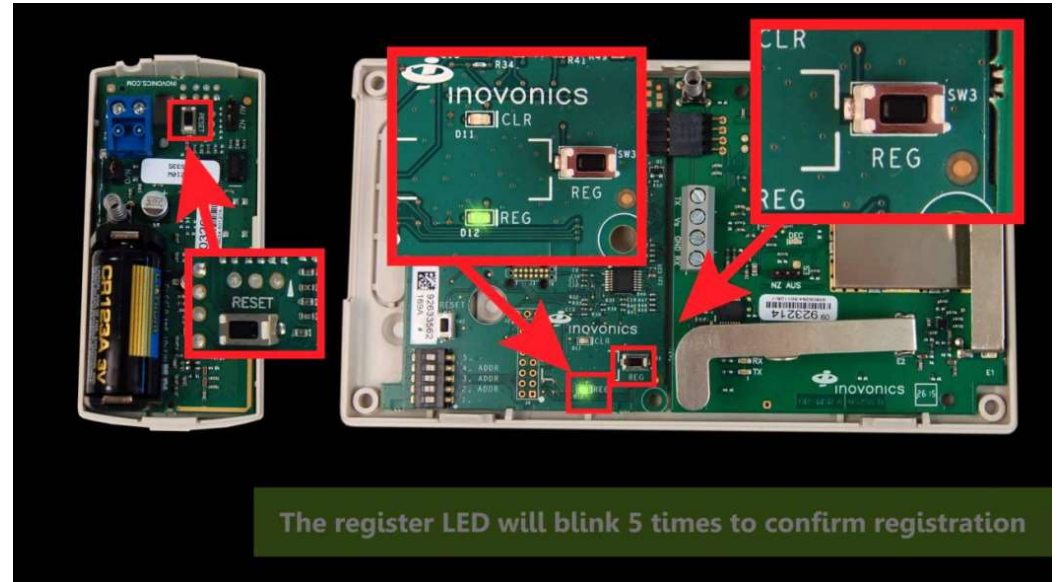
Details on LinkedIn if you need them [2]



Your Instructor – Things I Helped Make (Edwards)

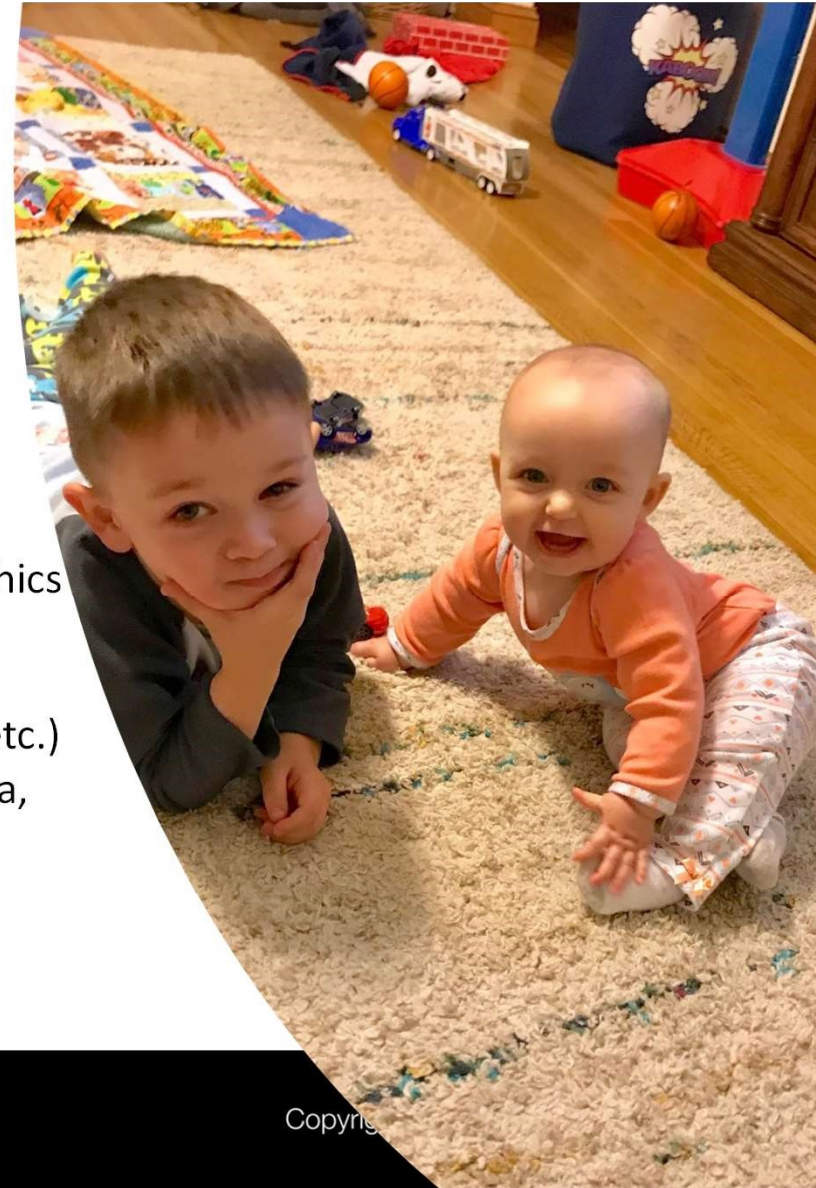


Your Instructor – Things I Helped Make (Inovonics)



Your Instructor – Skills/Interests

- Proud grandfather (Hi Wyatt and Emily!)
- Science fiction and comics fan
- Technical
 - System Design/Integration/Architecture Modeling/UML
 - Engineering and Project Management
 - Discrete-Event Simulation, Mathematical Modeling, Statistics
 - UX/Usability Theory & Methods, GUI Design, Computer Graphics
 - IoT/Embedded Device Designs, System Designs, and Cloud Frameworks
 - Prototyping and Single Board Computers (Rasp. Pi, Arduino, etc.)
 - Languages: Python, Java, C, C++, C#, Node.JS, R, Mathematica, MatLab
 - Education and Mentoring
 - Electronics (Interested, Not skilled/Not an EE)



Your Instructor – Hard of Hearing

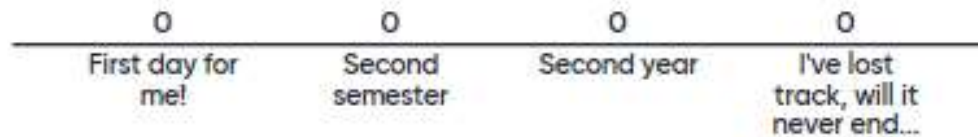
- I am a hearing aid user
- Even with the electronics in my ears, I will struggle to hear some of you
- If you speak to me where I can't see you, I may not hear you
 - I don't generally ignore anyone on purpose...
- I really can't do whispers or quiet speech
- If you need to have a quiet/personal conversation with me, you may want to come to my office or arrange a meeting
- Please be patient with me
- Don't be surprised if I walk to you and/or ask you to repeat questions or answers, and please correct me if I mishear something



Go to **www.menti.com** and use the code **84 08 87**

What year are you in at CU?

 Mentimeter



 0

Things I Believe – Servant Leadership

- Servant Leadership asks leaders to give priority to the needs of their colleagues and teams to be the best steward for an organization
 - It is a conscious decision to lead in order to better serve others, not to increase their own power
 - The objective is to enhance the growth of individuals in an organization and to increase teamwork and personal involvement
- Servant leaders strive to **be authentic, open and honest, accepting, present, and useful**
- See the references for more information [3], [4]

Four Sayings That Can Lead to Wisdom

- “I was wrong.”
- “I'm sorry.”
- “I don't know.”
- “I need help.”

Taken from author Louise Perry

I'm here for you. If you need anything, ask.



References

- [1] https://nsuworks.nova.edu/gscis_etd/253/
- [2] [linkedin.com/in/brmjrr/](https://www.linkedin.com/in/brmjrr/)
- [3] <https://www.penguinrandomhouse.com/books/6448/the-servant-leader-by-james-a-autry/9781400054732/>
- [4] <https://www.greenleaf.org/what-is-servant-leadership/>

