

# Introduction to Instructor

CSCI 4448/5448: Object-Oriented Analysis & Design

Lecture 1

# Acknowledgement & Materials Copyright

- I'd like to start by acknowledging Dr. Ken Anderson
- Ken is a Professor and the Chair of the Department of Computer Science
- Ken taught OOAD on several occasions, and has graciously allowed me to use his copyrighted material for this instance of the class
- Although I will modify the materials to update and personalize this class, the original materials this class is based on are all copyrighted © Kenneth M. Anderson; the materials are used with his consent; and this use in no way challenges his copyright

# 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

- Dept. of Computer Science (now)
- Sr. Instructor and Faculty Director of Professional Master's Degree and TCP (Technology, Cybersecurity, and Policy) Programs
- Classes for CS
  - CSCI 4/5448 Object-Oriented Analysis and Design
    - Many times – Java mostly, bit of Python
  - CSCI 5040/5050 Professional Masters Project
    - Two semester project class – technologies vary by project
  - CSCI 6930 Professional Internship
- Previously part-time Lecturer and then full-time Sr. Instructor for Dept. of Electrical, Computer, and Energy Engineering and
- Classes for ECEE
  - ECEN 5783 Embedded Interface Design
    - Taught and developed the class – Python/Node.JS/AWS/UX/Prototyping
  - ECEN 5813 Principles of Embedded Software
    - Foundation C for Firmware/Microcontrollers

# Your Instructor - Professional

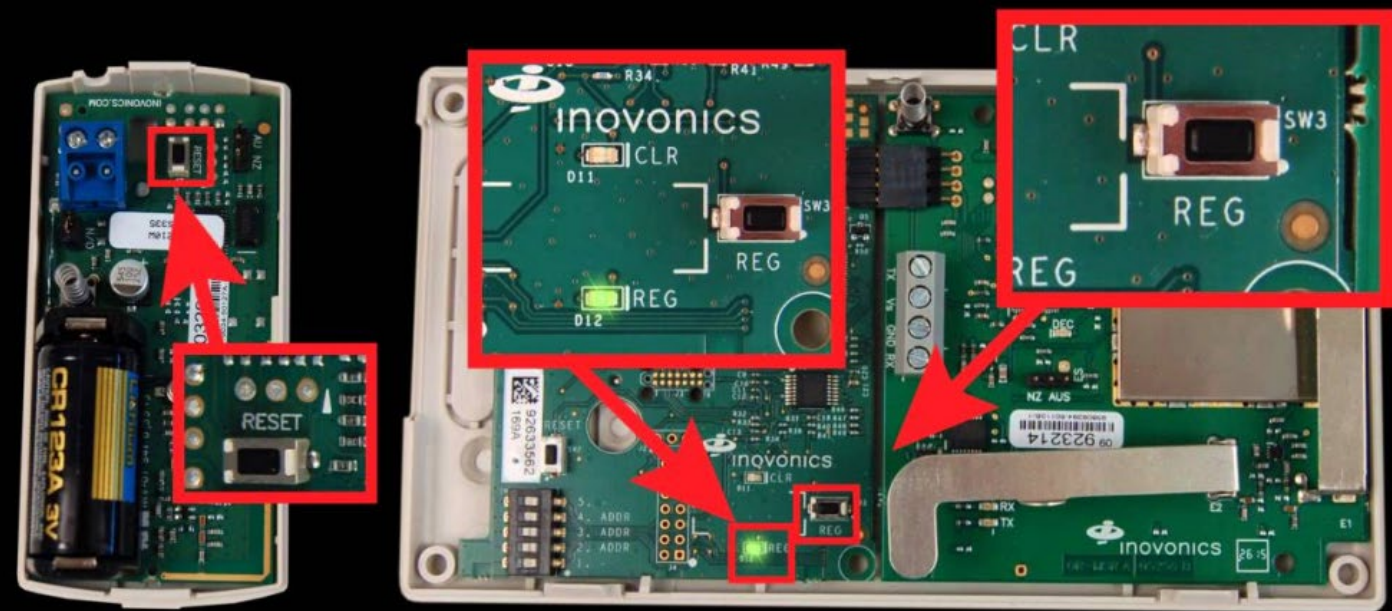
- 35+ Years in Industry for Software, Analysis, and Engineering
  - Pall Corporation – Software Engineer, Graphics Systems Manager (CAD/CAE, Software)
  - David Sarnoff Research Center – Member, Technical Staff (CAD/CAE, Modeling & Analysis, Software)
  - Cummins Engine Company – Technical Advisor (Reliability, Advanced Concepts, Software)
  - Structural Dynamics Research Corp. – Sr. Software Engineer/Trainer – Integration (CAD/CAE, Software)
  - Edwards Fire Systems – Global Lead, Software & Program Management (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)



The register LED will blink 5 times to confirm registration

# Your Instructor - Skills/Interests

- Proud grandfather (Hi Wyatt and Emily!)
- Science fiction and comics fan, miniatures & table-top gamer
- Technical interests
  - 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
- Not much of an issue on Zoom, can be if we meet in person
- Even with the electronics in my ears, I will struggle to hear some of you
  - I may have to have someone else repeat what you say
- 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, especially behind a mask
- If you need to have a quiet/personal conversation with me, you may want to arrange a meeting
- Please be patient with me
- Don't be surprised if I ask you to repeat questions or answers, and please correct me if I mishear something

# Things I Believe In – 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

# Things I Believe In – Respect for Others

- From Dan Larremore's Lab Manual:
  - “Respect each other, both by giving the respect due to every human being, and by earning the respect of others by how we act.”
- You can come to me about any issue you have
  - CU Boulder prohibits all forms of discrimination and harassment
  - For any serious issue, as a mandatory reporter, I must notify OIEC (Office of Institutional Equity and Compliance)
  - They or other campus representatives will contact you
  - You will always have the option to talk or not talk about the issue further
  - More at <https://www.colorado.edu/ova/mandatory-reporting-policy-cu-boulder>
- If you have an issue you do not want to speak with me about:
  - Contact an advisor, another faculty member, department heads, or the OIEC
- To support JEDI (Justice, Equality, Diversity, Inclusion) related efforts
  - The BOLD center - <https://www.colorado.edu/engineering/bold>
  - Computer Science Graduate Students Association (CSGSA) - <https://boulderccsgrads.org/> (active Antiracism/Inclusion group)
  - Computing Advisory Council - <https://www.colorado.edu/studentgroups/cac/>

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

# References

- [1] [https://nsuworks.nova.edu/gscis\\_etd/253/](https://nsuworks.nova.edu/gscis_etd/253/)
- [2] <https://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/>