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
- Classes for CS
  - CSCI 4/5448 Object-Oriented Analysis and Design (F/S)
    - Fourth time this semester – Java mostly, bit of Python
  - CSCI 5040/5050 Professional Masters Project (F/S)
    - New for Fall 2020, two semester project class – technologies vary by project
- 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
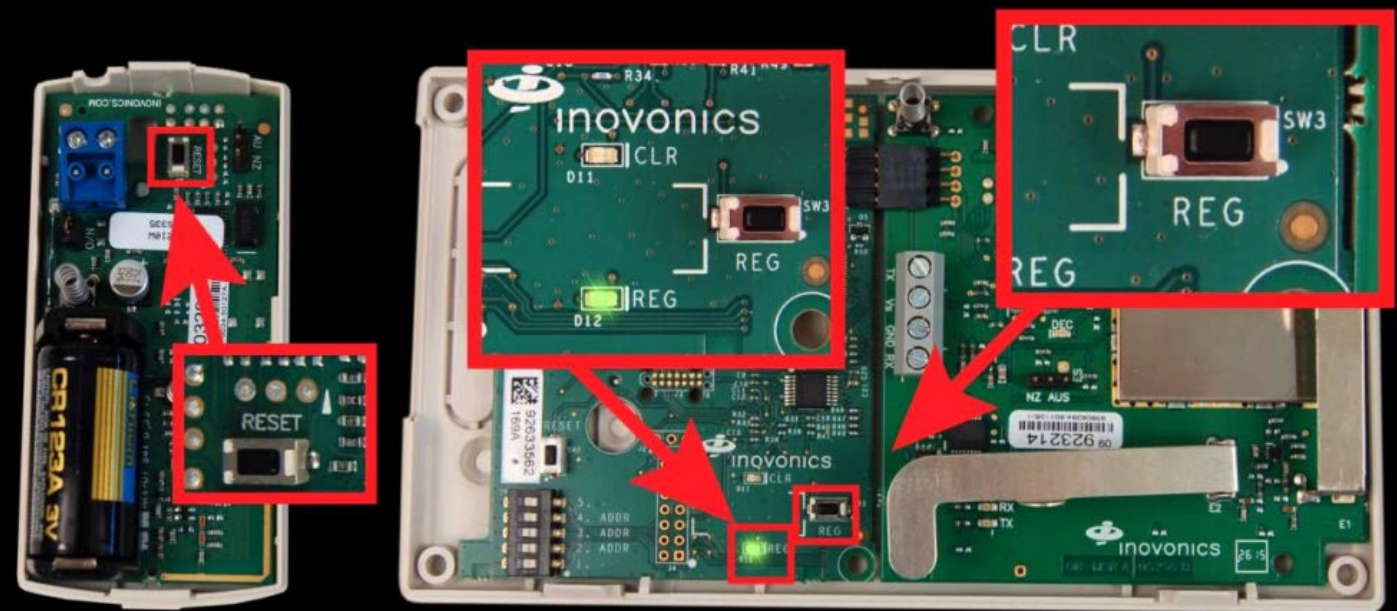   - Foundation C for Firmware/Microcontrollers

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
- 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 walk to you and/or 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

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

References

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