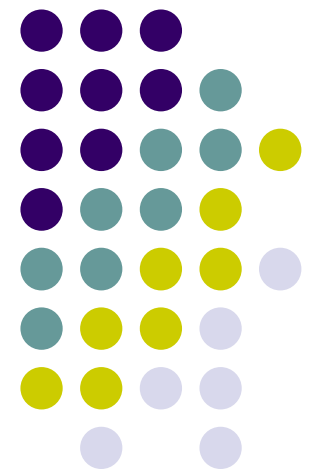
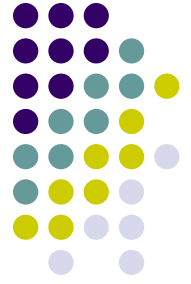


Career Pathways

Sarah Oliveira
Bombardier Aerospace

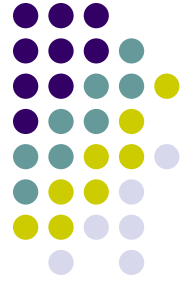




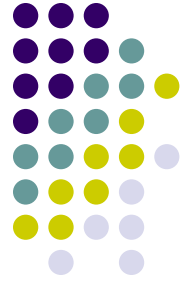
My Background

- ECE Graduate OT5 in Electrical Engineering
- Diverse undergrad curriculum:
 - Control Systems
 - Computer Networks
 - Communications Systems
 - Electronics (digital/analog/semiconductors)
 - Optics
- Honeywell ASCa in the Electrical Power Group in 2005
- Since 2006, with Bombardier Aerospace in Electrical Systems Engineering

Who is Bombardier Aerospace?



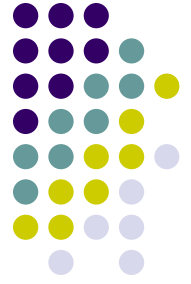
- The third largest civil aircraft manufacturer in the world
- Manufacturing Sites in Wichita, Montreal, **Toronto**, Belfast, Queretaro
- Diverse portfolio of aircraft
 - Commercial (CRJ, C-Series, **Q-Series**)
 - Business (Challenger, **Global**, Learjet)
 - Amphibious (Water Bomber)



Typical Roles for ECE Grads?

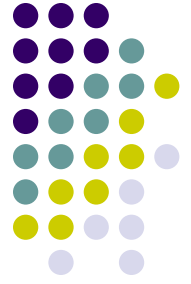
- EMC (Electromagnetic Compatibility)
- Software/Design Assurance
- Flight Test
- Airworthiness
- Reliability, Maintainability and Safety
- Avionics
- **Electrical Systems**

Electrical Systems



- Responsible for design and integration of electrical systems
- Discrete Logic-Based Design
 - If (this) then (that)
 - Fault tolerance and Failure Mode Analysis
- TC/FAA/EASA design compliance
- Technical Conferences and Peer Reviews
- Validation and Verification
 - Flight test
 - Ground test
 - Simulation
- Lighting system based on Human Factors
 - Dispersion
 - Colour

Your Career - Aerospace



You like:

- being part of the big picture
- coming up with different solutions to the same problem
- working with different people (interacting with customers, vendors, lawyers, other engineering groups)
- adapting to new visions and paradigm shifts
- planes!