

Ethics Portfolio

Ethics Presentation slides by *Oluwatoyin Jolaosa.*

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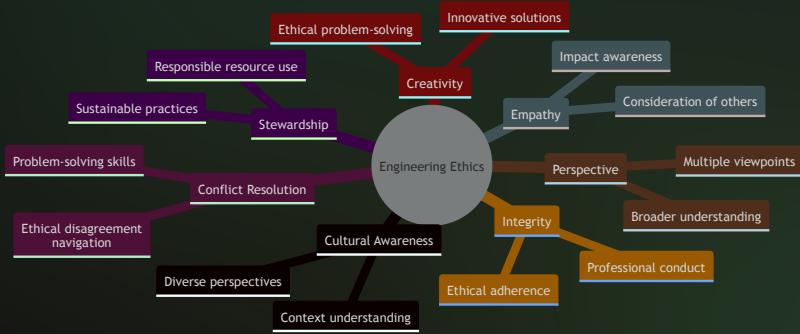
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- My name is Oluwatoyin Jolaoso
- I am a graduate student in the Geomatics department at the **University of Calgary**
- I am passionate about creating innovative solutions for everyday problems. I find great joy in breaking down complex issues into manageable parts, allowing me to see the bigger picture and develop effective solutions.
- Professionally, I have experience as a software engineer and an account manager. In this field it has made it easy to bring my ideas into realization faster.
- A notable success in my career has been successfully transitioning into the tech industry. Initially ~~counting~~, this journey taught me resilience and adaptability.

Engineering Ethics and Responsibility



Source (MindMap - Design by me)

- Prior to this course, I had a general grasp of ethics, but I now appreciate the applications within the engineering profession.
- My biggest takeaway from ENGG 687 has been the importance of considering ethical implications in engineering design, especially the concepts of 'design for ethics' and 'design for equity'.
- I've learned to differentiate between equality and equity, understanding that equitable solutions often require tailored approaches rather than one-size-fits-all solutions.
- When approaching design challenges, I'll consider not just the technical aspects but also the ethical implications and how to ensure equitable outcomes.

Learnings in ENGG 687



Image by HMI Edu

- One impactful learnings was about uncertainty in decision-making, especially the concept of Epistemic uncertainty. This challenged my previous approach of accepting tasks without fully acknowledging my competence level.
- I've learned the importance of transparency regarding my skills and the potential uncertainties in project delivery.
- I've been actively applying these principles in my life over the past three weeks.
- The concept that challenged my thinking is dilemma of accepting projects that stretch beyond my current competencies.
- While I understand the importance of only undertaking work I'm competent in, I still grapple with the idea that accepting challenging projects with the intention to learn and grow might be morally justifiable.

Course Reading One

Pitikwahanapiwyin (Poundmaker), Plains Cree Chief, 1885
(Courtesy O.B. Boutil/Library and Archives Canada/C-001875)



Image by Canadian Encyclopedia

- The concept of Two-Eyed Seeing challenges the traditional Western approach to engineering by emphasizing the importance of integrating Indigenous knowledge and perspectives.
- I found the idea of "co-learning" particularly interesting and applicable to engineering practice. It suggests that engineers should not just consult with Indigenous communities, but actively engage in mutual learning processes.
- One aspect I initially struggled with was the integration of spiritual concepts into what I've traditionally viewed as a purely technical field.
- upon reflection, I realized that acknowledging these perspectives could lead to more comprehensive risk assessments and ethical decision-making in engineering projects.
- Learnt on Indigenous Ethics

Course Reading Two

- One interesting point in this podcast was Jake Sticca's question about whether it's beneficial to code anything as masculine or feminine, as this creates a hierarchy.
- This made me think differently about how we might unconsciously gender certain aspects of engineering work or roles, potentially limiting opportunities or creating biases.
- The biggest takeaway for engineers is the importance of actively promoting gender equality and challenging traditional gender norms in the workplace.
- This not only benefits individual engineers but also leads to better business results, more innovation, and positive societal impacts.
- Design was taught during the Design for equity class.

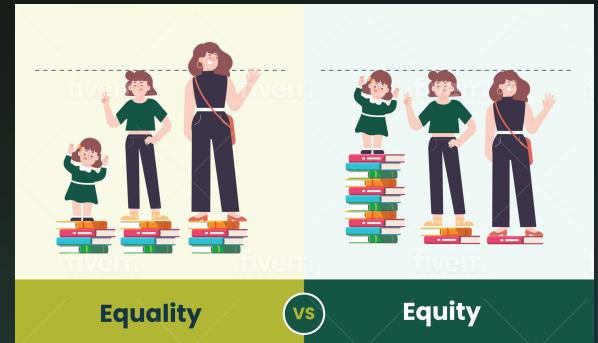


Image by Millennial Cities

Additional Materials One



Image by Futerra

- An investigation was done on IKEA's sourcing practices and this lead to a troubling issue between the company's sustainability claims and its actual practices, one regarding illegal logging in protected Siberian forests.
- IKEA despite marketing itself as a leader in sustainable furniture, having been linked to sourcing timber linked to significant environmental violations, including logging in areas critical for climate regulation.
- This discrepancy between IKEA's perceived public image of sustainability and its actual practices is an example of greenwashing,
- Greenwashing was taught during lecture 7 on October 12 .

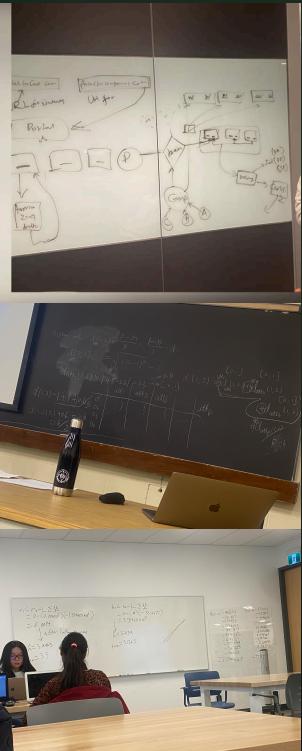
Additional Materials Two



Icon on Flaticon by Assia Benkerroum

- Facebook conducted a psychological experiment on nearly 700,000 users without their explicit consent.
- The study manipulated users' news feeds to show more positive or negative content to see how it affected their own posts.
- This raised significant ethical concerns about informed consent in digital research and the potential psychological impact on oblivious participants.
- This case study illustrates the power imbalance between large tech companies and their users, which is a central concern in designing for equity and justice.
- Facebook gains valuable insights into user behavior and emotional responses, which can be used to refine algorithms and increase engagement without considering how this will affect the end users emotion which will in turn potentially affecting their well-being.
- Relating to the design for Justice.

Teamwork



- I learned from the project the importance of diverse approaches and open-mindedness. I realized that while team members may share a common goal, their methods to achieve it can vary significantly.
- This diversity in approach can be a strength when properly put to use.
- Each of my team member brought a unique perspective to problem-solving.
- The importance of listening to and considering all ideas can not be overstated.
- I learned that factors like language barriers can influence a person's communication style without affecting their work quality or commitment.

Image photograph by Me

Reflection and looking back

In Reflection Quiz 5, I stated:

One small goal I could set for myself in the next week to bring a little balance to my wellness wheel is to dedicate some time to improving my financial wellness.

This reflection emphasize the impact of Dr. Robyn's lecture on the wellness wheel. The inclusion of this concept in our course has had a profound effect on my personal development. In the weeks following this reflection, I've noticed unconscious improvements not only in my financial wellness but also in my physical well-being. This shows the power of awareness and intentional goal-setting in promoting personal growth.



Reflection and looking back (Contd)

In the Design for Justice reflection Quiz 8, I wrote:

Designing a public building, gathering input from the community that would benefit from this can lead to more functional and accepted design.

I now recognize that it's not the sole factor in successful design. This reflection has prompted me to consider the complexity of design processes more deeply. I've come to understand that while user input is valuable, it must be balanced with professional expertise. For example, being a frequent train user doesn't necessarily qualify someone to provide the best advice on train design or construction.



Fun Fact about me

- **Speed Typing** 📄 : I can type over 105 words per minute with 98% accuracy. This skill has enhances my efficiency in documentation and communication.
- **Hiking** 🏔️ : I enjoy hiking during the summer, which teaches helps with my endurance, problem-solving, and appreciation for nature.
- **Gamer & Streamer** 🎮 : In my free time, I stream and play video games, this has helped in developing my communication skills, leadership, and perseverance in fast-paced environments.
- **Trivia Aficionado** 🧩 : I know over 500 fun facts about humans and animals, just because I can 😊 .

Images on Blush design



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