

## ***Innovation Project 4***

**Individual:** Due by 11:15 am, Tuesday, March 21<sup>st</sup> (Canvas): PDF, 2-3 pages, single-spaced

**Team:** Due by 11:15 am, Tuesday, March 28<sup>th</sup> (Canvas): PDF, 3-4 pages, single-spaced & deck

**Please use the same bulleted list when submitting your answers to the questions, and cite your sources.**

### **Leveraging Resources to Technologically Innovate (150 points)**

#### ***Individual (65 points)***

- Identify an example of a resource related to the body to be leveraged. This could be an example of an underutilized resource which you think could be leveraged for the purpose of technological innovation (e.g., smelling radiation), or it could be an existing technological innovation which you think could be leveraged to enhance the resource related to the body (e.g., X-ray vision). (10 points)
- What are your predispositions about this bodily resource/existing technological innovation? In other words, why do you think that this bodily resource could be more effectively leveraged? (10 points)
- Conduct research to challenge your predispositions. Ideally, this will be primary research through either observation and/or interviewing; however, I will accept secondary research if your chosen bodily resource/technological innovation is of a nature for which it's not reasonable for you to conduct primary research. Provide your method used and key data collected, including photos when appropriate. (15 points)

- What insights did you gain through your research (e.g., “People aren’t developing technologies to make effective use of people’s sense of smell because it’s deemed too inferior to that of most animals, such as dogs.”)? In other words, how did your research inform/challenge your predispositions (i.e., your thoughts regarding the bodily resource/technological innovation prior to conducting the research)? (10 points)
- Develop a technological innovation **related to Wearables/Biometrics** based on your insights gained regarding leveraging a bodily resource. Include a sketch and a description, which should include a summary of the technology involved. (20 points)

*Team (85 points)*

- Pick one of the technological innovations **related to Wearables/Biometrics** developed by your team. Refine the sketch that was originally developed. In addition to your sketch, please provide an ideal use case for how you would expect that your concept would be used to maximize its utility. Your goal here is to clearly describe how and in what context your technological innovation will be used by your intended user. (20 points)
- Discuss how you might implement your solution effectively. In other words, what subject matter expertise and/or constituent buy-in do you think that you would need in order to actually put your concept into the world to leverage the bodily resource you identified? Be specific and reference the report on Wearables/Biometrics developed and presented by Roosevelt. (30 points)

- What are your core competencies as a team? Discuss what role each member played and how you leveraged each member as a resource in the innovation process. Assuming you were lacking sufficient technological expertise as a group to develop your technological innovation, describe what other resources you utilized to develop a better understanding of the problem space you are addressing as well as the solution you are endeavoring to provide through your technological innovation. (20 points)
- Assemble a slide deck to present to the class how you might implement one of your concepts effectively. You're being graded on your ability to convincingly argue that you have sought out the resources necessary to build your technological innovation and get it into the hands of your intended user. Be specific and cite your sources. I am particularly interested in you making the effort to speak to subject matter experts to inform your understanding of both your problem space and the implementation of your solution. Submit your slide deck along with your report. If you think that your slide deck is sufficient, you can just submit it. (15 points)