**Add any important links or ideas you want to share! Collaboration is cool**

* [Arduino RFID reader](https://playground.arduino.cc/Main/DIYRFIDReader)
* [What is RFID?](https://blog.atlasrfidstore.com/rfid-definition-basics)
* [How do antennas and transmitters work?](https://www.explainthatstuff.com/antennas.html)
* [Antenna Basics](http://www.antenna-theory.com/basics/main.php)
* [RFID system types](https://www.impinj.com/about-rfid/types-of-rfid-systems/)
  + It looks like ISU card is low freq
* [Overview of RFID systems](http://www.ia.omron.com/support/guide/47/introduction.html)
* [LF RFID in a nutshell - Texas Instruments](http://www.ti.com/lit/an/swra284/swra284.pdf)
* [How RFID works and antenna design](https://www.autodesk.com/products/eagle/blog/rfid-works-antenna-design/)
* [A Designers Guide to RFID](https://www.digikey.com/en/articles/techzone/2013/may/a-designers-guide-to-rfid)
* [HID RFID descriptions](https://www.hidglobal.com/sites/default/files/resource_files/hid-prox-br-en.pdf)
* [IQ modulation description](https://www.keysight.com/upload/cmc_upload/All/IQ_Modulation.htm?cmpid=zzfindnw_iqmod&cc=GB&lc=eng)
* [YouTube Video for RDM6300 -> Arduino Interface](https://www.youtube.com/watch?v=l8RDbHd1cak)
* [EM4100](http://www.priority1design.com.au/em4100_protocol.html)
* [EM4095](https://www.emmicroelectronic.com/product/rf-reader-ics/em4095)
  + [EM4095 reader (includes circuit diagram)](https://www.mikroe.com/rfid-reader-board)

**Questions?????**

* What type of data does the RFID receive and then it must transfer in serial to the computer?
* Are we building the RFID tag from scratch (building the circuit)? Or using a like a [UART module](https://www.seeedstudio.com/125Khz-RFID-module-UART-p-171.html)? - Shubham
* Audio and Visual controller for feedback? - Shubham
* What kind of microcontroller fits this project best?
* Computer application to read serial data - what computer interface to use?
* How to design/build an antenna?
* Power source? - will usb from computer suffice?
* Can we use NFC from phones instead?