



Baker Barrios

Baker Barrios's Sponsored project is

1. Building a Web crawler that crawls the BBA Orlando and Tampa office network (test environment) that will find all Revit files (.rvt) no matter where they hide on the network.
2. Then the application will record its location in a database (Index).
3. We will then use these locations to extract information from the Revit files like name, size, last opened, who last opened it and also record this in the database.
4. Next, build a [chatbot](#) that can search the database for an answer when asked a question via a chat dialog-box.

Example:

You: Hello

Chatbot: Hello, how are you today?

You: Ok

You: I need all the information on the commons project

Chatbot: No problem

Chatbot: The commons project number is 170500.00 and is located at R:\2015\150100.00\108008_Central_R16.rvt the file size is 89.5 megabytes and was last accessed 3 days ago. The file has been opened 129 times. Is there anything else I can help you with today?

You: No

Chatbot: Have a good afternoon DBrokaw

5. The next iteration of this tool will be (if time allows) to connect the chat bot to a natural language processing engine like Apple's Siri that would speak from an Amazon Dot/ or google home. This is the first step in being able to make information available via simply asking the computer a question about the project. Imagine being able to ask the bot how many square feet is floor 23 of suchNsuch a project, and it tell you.
6. Should multiple teams achieve the previous goals well, the judging will come down to the amount of data accessible in the Revit files as well as the speech & txt being most human like in the AI's responses.
 - a. The goal is to help realize the untapped potential of our data—to make it easier for more people in our enterprise to access and understand it, and make it an actionable asset. This tool should transform data into automated, human-sounding Intelligent narratives that empower our people with insights to improve every aspect of your business.
 - b. Assuming you have knocked all the previous task out of the park the clencher is to be able to access Projects in Autodesk's "Collaboration for Revit" cloud servers. How to do

this I am not sure but suspect one would have to use Autodesk Forge development platform to do so.

Baker Barrios's Sponsored Project Specs

Test environment:

Servers –

TITANIUM (Domain Controller)

Windows 2012 R2

DNS

DHCP

Net Share – Data

IP – 172.16.2.10

LEAD (Member Server)

Windows 2012 R2

Net Share – Source

IP – 172.16.2.8

Gateway – 172.16.2.1 (Router)

Domain name is BB_METAL.local

Wireless network name – Backoffice

p/w = 189Service

Network Shares

Data - \\titanium\data

Source - \\lead\source

Workstations –

IRON

Windows 10

Iron has Revit 2015

CHROMIUM

Windows 7

Users

Lithium- (p/w = lithium) this user is a local administrator on the servers

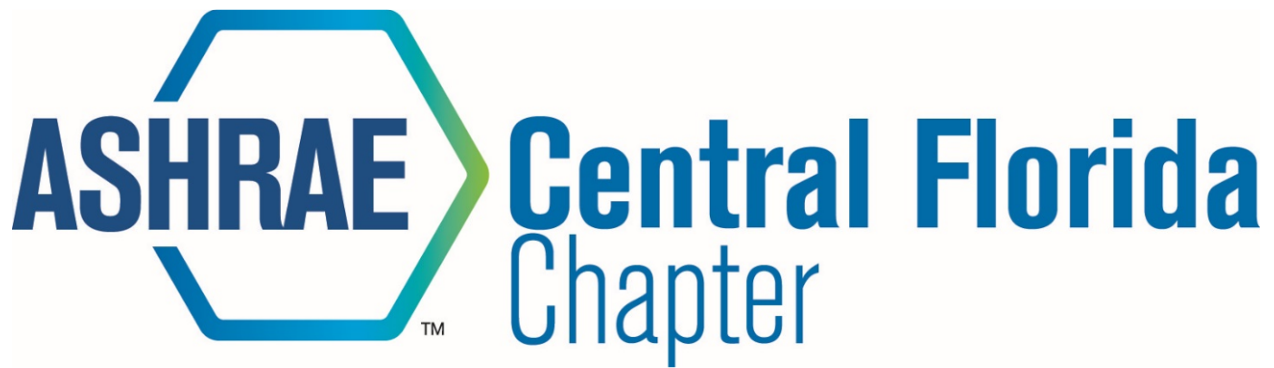
Uranium– (p/w = uranium)

Mercury – (p/w = mercury)

Administrator – (p/w = CobaltSteel!) Domain Administrator

Known issues we will need done on site:

Access Control Lists settings, with windows event logging turned on



ASHRAE's Sponsored project is

For many mechanical, plumbing and electrical design projects, it becomes necessary to provide a two-dimensional, schematic diagram of various systems. Even with the industry shift to BIM technology, with the use of programs like Autodesk Revit, many engineers are still left manually drawing these schematic, line-based diagrams using simple detail views within the BIM software. Much of the information that these diagrams are attempting to represent is already contained within the parameters for the various spaces, equipment and systems in the BIM model. The ASHRAE Central Florida Chapter is challenging a student team to take a three-dimensional HVAC duct system, modeled in Autodesk Revit, and generate a line-based schematic diagram showing the airflow into each of the spaces served by that system, and the quantity of each portion of ductwork between the aforementioned spaces.



ASHRAE's Sponsored project is

Whiting Turner will set out to hack the ever changing jobsite and the hazards it presents. It has been proven time and again that education can prevent our workers from coming into harm's way, even more so if they are warned about an area they are entering. Some of our largest issue environments are Fall protection, scaffolds, toxic/hazardous substances and trenching. These issues are currently solved with our Job Hazard Analysis, but those are put into a binder that sits in our lead superintendent's office. Thus we want to push this information to the end user when they are in these environments. The end goal would be to have this data communicate with our safety app [WT Target Zero iOS]. We are providing location/proximity beacon developer kits [<https://github.com/Estimote/iOS-SDK>] and project tango developer kits [<https://developers.google.com/tango/>]. Competitors could use these or other technologies to push the information to those in the field.

WALTER P MOORE

Walter P Moore's Sponsored project is

Top Secret – to be revealed the day of the event.