



A segment of Robotic Vision emulates processes that occur in the human brain. Creating and programing networks we are able to teach robots to identify simple shapes to more complex figures and see. Our neural networks are one of the most complex systems that we know of and our perception of reality is informed through what we see and experience everyday. Naturally inclined to see patterns in everyday the human mind warps reality to make sense of an abundance of stimuli. Processing during sleep, the mind dreams and conjures surreal images of constructs of everyday.

We propose to run grant the robot the ability to not only navigate its environment but create its own interpretation of the visual information it is experiencing. Letting it run and then Dream. Finalizing its day (loop) by communicating its vision by displaying it in an interesting way before it goes and loops again.

We plan to achieve this visualization using DeepDream. DD is a computer vision program which uses a convolutional neural network to find and enhance patterns in images via algorithmic pareidolia.

We intend to explore a rudimentary process of visual processing and interpretation similar to the type of processing humans do which similar to DeepDream are informed through our experiences and learned information.

Possibilities to Consider:

- Robot stores drone pictures.
- Robot responds and follows sound.
- Robot records video.
- Creating dynamic environment with specific intent

Things needed to Resolve:

- Communication from drone to Robot
- Robot behavior while processing
- Saving and automating steps
- Automating Display