Robotic Vision

Assignment 01

Due: 24-Jan-2019

**Applications of image processing in the electromagnetic spectrum**

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| https://leadertechinc.com/blog/wp-content/uploads/2016/08/Electromagnetic-Spectrum.png |
| Fig 1. The Electromagnetic Spectrum |

**Definition of electromagnetic spectrum:**

**T**he entire range of wavelengths or frequencies of electromagnetic radiation extending from gamma rays to the longest radio waves and including visible light (Merriam-Webster dictionary).

Assignment:

Applications of Image Processing are not only found within the visible spectrum using RGB cameras. Several other applications of image processing are found out of the region of the visible spectrum.

Give 5 application of image processing outside the visible spectrum including an explanation of the device used to capture the “images”.