Analysis of the scientific properties of the various robot components

How the robot “thinks”, communicates, avoids injuring human beings and what damage to the environment such robots may be causing

The EV3 Mindstorms robot “thinks” using the microprocessor provided in the kit. This component acts as the “brain” of the machine. It is there to “execute and manage” (Techopedia, 2019) the tasks that it has been programmed to do. It computes the information that it receives from the various other components to logically modify its actions to accomplish the given tasks. Microprocessors are normally made from silicon microchips, as this material is an excellent semi-conductor once a small amount of impurities are introduced to allow electrons to flow into them (How It Works Team, 2012).

References

Techopedia (2019) *Definition: What Does Microprocessor Mean?* Available at: https://www.techopedia.com/definition/2874/microprocessor (Accessed 03/11/2019)

How It Works Team, How It Works (2012) *Why Are Microchips Made Of Silicon?* Available at: https://www.howitworksdaily.com/why-are-microchips-made-of-silicon/ (Accessed 03/11/2019)