



Autonomous Electronic Devices and Robotics

An autonomous device or robot is an untethered device that is able to act without recourse to human control. A key differentiator in the controls or “brains” of the device is whether it is driven by Artificial Intelligence (AI) which allows for some level of independent thinking or “hard” programmed to navigate through a sequences of actions based on preset parameters with GPS signals. The ability to continually sense (proinception and exteroception) their internal status and immediate external environments and subsequently react to these inputs is critical to successful outcomes. Some reference links: [Artificial intelligence - Wikipedia](#) [Autonomous robot - Wikipedia](#)

Using Chat GPT For Naming New Products Or Drafts Of Documents

Years ago Time magazine ran a competition for best new full page marketing ads. Finalists were given one free full page and single column adjacent to their full page for the ad agency’s blurb about the full page and their contact information. One of the winners was a full page that was blank! Their one column on the facing page indicated that the most intimidating moment of any project is a blank piece of paper or blank computer screen.

To overcome the brain freeze of trying to come up with a unique name for a new product or the first draft of a document is to hand it over to Chat GPT for inspiration and its FREE!

We highly recommend that any suggestions or document drafts it generates need to be carefully reviewed and cross checked. But doing so is a lot less intimidating then a blank sheet of paper or blank computer screen! Starting with Chat GPT is a lot less intimidating way to start!



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Two of the key elements that enable autonomous devices and robotics:

Microprocessors - These Central Processing Units (CPUs) are the programmable brains of any electronic device. AI processors are the newest from of processors that can enable varying levels of independent machine thinking. One of the leaders in AI platforms is NVIDIA....please see [World Leader in Artificial Intelligence Computing | NVIDIA](#)

Sensors - Sensor technologies and systems have been constantly evolving. For some interesting points please see....[How Sensor Technology is the key for Autonomous Vehicles - KnowHow \(distrelec.com\)](#)

Let’s take a closer look at a few applications:

- **Commercial** - from drones to robotics and beyond..some helpful links:

[Top 12 IoT applications and examples in business | TechTarget](#)

[The autonomous vehicle industry moving forward | McKinsey](#)

[Autonomous Things: Why it Matters, Examples & Pitfalls for 2024 \(aimultiple.com\)](#)

- **Consumer** - from EV’s to vacuums and beyond...some helpful links:

[The future of autonomous vehicles \(AV\) | McKinsey](#)

[Consumer-Facing IoT: 20 Devices Poised To Make A Big Impact \(forbes.com\)](#)

- **Defense** - Military and Aerospace Applications - a helpful market snapshot:

[In-Depth Industry Outlook: Military Robotics Autonomous Systems Market Size, Forecast \(verifiedmarketresearch.com\)](#)

- **Medical Applications** - An in-depth look at one of the many applications:

[Concepts and Trends n Autonomy for Robot-Assisted Surgery - PMC \(nih.gov\)](#)