



**CACTUS
FENCE &
CONSTRUCTION**

The Gate Automation Bible: Secure, Smart, & Reliable

Authored by: Arthur Flores, Master Fencing Contractor

Engineered Access Control A driveway gate is the first line of defense for your property and the most frequent touchpoint you have with your home. Our automation protocols are designed to eliminate the common "jerking" and "stalling" motions found in low-quality systems, replacing them with high-torque, industrial-grade reliability.

Motor Torque & Performance

Automating a custom-built timber or wrought iron gate requires more than just a motor; it requires calculating the weight, wind resistance, and friction coefficient of the entire assembly.

- **Precision Control:** We specify high-torque hydraulic or heavy-duty electromechanical arms that ensure smooth start-and-stop operation. This prevents structural fatigue on gate hinges and latches, significantly extending the life of your gate assembly.
- **Weather-Proofed Electronics:** Houston's humidity is the enemy of circuit boards. Our controllers are housed in NEMA-rated, weather-sealed enclosures to ensure consistent performance during tropical storms.

Safety & Integration

- **Collision Detection:** Safety is non-negotiable. Every system we install is equipped with photoelectric safety sensors. The gate will halt instantly upon detecting an obstruction, ensuring total protection for vehicles, pets, and children.
- **Smart Home & Emergency Access:** We integrate our operators with existing smart home ecosystems, keypads, and smartphone-enabled apps. For commercial sites, we provide emergency Knox Box integration, allowing fire department access in the event of an emergency.

Ongoing Mechanical Health A gate is a machine. To keep it running:

- **Quarterly Inspections:** Ensure tracks are free of debris and hinges are lubricated with marine-grade grease.
- **Electrical Checks:** Test safety sensors once per season to ensure the "reverse-on-contact" feature is active.

Secure Your Entrance with Professional Engineering:

- **Contact Arthur Flores:** (713) 907-5975 | [\[https://cactusfence.com/fence-services/custom-gates/\]](https://cactusfence.com/fence-services/custom-gates/)