

ALEXEI PISTOUN

(281) 650-7468 • Pistoale@Tamu.edu • linkedin.com/in/alexei-pistoun • alexeipistoun.com
1703 Lawyer St Unit B, College Station, TX 77840

EDUCATION

Texas A&M University (TAMU) — College Station, TX Dec 2027
B.S. Multidisciplinary Engineering Technology, Mechatronics · Minors: Embedded Systems Integration, Engineering Entrepreneurship
Relevant Coursework: Analog Electronics · Microcontroller Architecture · Embedded Systems Software · Embedded Systems Development in C · Product Design & Solid Modeling · Mechatronics I

TECHNICAL SKILLS

CAD & Manufacturing: SolidWorks · Fusion 360 · CNC Machining · 3D Printing · Injection Molding
Electronics & Embedded: Altium · EasyEDA · STM32 · FPGA (Vivado/Quartus) · Soldering · Multisim
Programming: C/C++ · Python · ARM Assembly · MATLAB · Simulink · Git/GitHub

EXPERIENCE

SteakyBone — Injection-Molded Consumer Product July 2025 – Present
Founder / Product Engineer

- Designed and iterated four aluminum injection molds for a nylon dog chew, optimized for use with a Morgan G100 injection molding press, manufacturability, part strength, and reliable mold filling.
- Developed the material-processing and molding workflow and wrote setup, processing, and production documentation; produced 400+ parts across mold iterations and sold 100+ units.

WoofWatch Collars Aug 2023 – Aug 2025
Founder / Electrical Lead

- Led a 5-person student engineering team developing an anti-theft, GPS-tracking dog collar.
- Filed a U.S. utility patent (Enhanced Smart Animal Collar System).
- Designed four PCBs (Altium, EasyEDA) and eight SolidWorks housings.
- Won 1st place at the Aggies Create Innovation Expo for design and engineering and received the \$2,500 Meloy Innovators Award.

PROJECTS

Aggies Create – Saratoga Homes Hydrogen Storage Aug – Dec 2022
Engineer Team Member

- Researched, designed, and built a scaled-down hydrogen generation and storage system with a 4-person team for a concept residential community, analyzing feasibility and safety considerations for El Paso, TX.

Aggies Create – Stride Guide Jan – May 2023
Engineer Team Member

- Built an IoT device to measure body accelerations and forces while running and give real-time form feedback; 3D-printed and iterated three enclosure designs based on runner feedback.

Injection Molding Machine Jun – Aug 2025

- Built a custom injection molding machine generating 1,770 lbf of injection plunger force, expanding shot size from 56g to 93g over the prior design.
- Implemented multi-zone PID temperature control (barrel, nozzle, and mold) to ensure reliable material flow and high-quality molded parts.

PATENT

Co-Inventor — Enhanced Smart Animal Collar System (U.S. Patent App. No. 19/307,440) Aug 2025
Utility patent application for a smart locking and tracking animal collar.

AWARDS

Meloy Innovators Award (\$2,500) · Aggies Create Innovation Expo — 1st Place, F23 & S24 (\$2,250)

OTHER SKILLS

Spanish (Fluent) · Russian (Fluent) · Student Pilot