ALEXZANDER DAVIDSON

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EDUCATION

University of Alabama College of Engineering — **Tuscaloosa, AL**
B.S. in Electrical Engineering (GPA: 3.53/4.00) — **May 2027**
Minors: Robotics and Mathematics

Manderson Graduate School of Business — **Tuscaloosa, AL**
Master of Business Administration, STEM Path to MBA (GPA: 3.67/4.00) — **May 2028**

Relevant Coursework: Signals and Systems, Digital Logic, Electronics, Electric Circuits, Computer Science, Theory of Probability, Statistical Methods, Management Science & Spreadsheet Models, Applied Differential Equations

EXPERIENCE

Safran Defense & Space, Inc. — **Norcross, GA**
Engineering Intern | Product Systems & Automation — **May - Jul 2025**

- Expanded assignment into end-to-end diagnosis of merger-disrupted product-update workflow, interviewing engineers, technicians, compliance leads, and managers to document missed handoffs, export-control requirements, and versioning rules, resulting in software requirements for secure, controlled update distribution across portfolio of 100+ products
- Built scripts and software routing updates, replacing manual tracking with version control and automated employee and customer alerts, clearing year-long backlogs and reducing end-to-end update cycle time by approximately 70%
- Launched secure update portal aligned with export-controlled distribution requirements; brought update workflows to full audit readiness and improved missed-change detection metric by approximately 75% versus pre-implementation

UA Tikkun Olam Makers (TOM) — **Tuscaloosa, AL**
Co-President & Lead of Innovation — **Jan 2025 - Present**

- Directed nine multidisciplinary assistive-technology teams through user requirements, weekly design sprints, and prototype reviews with users with disabilities, downselecting 25+ concepts into nine developed prototypes per semester
- Coached teams on product requirements, technical storytelling, and demonstration readiness through monthly workshops and mock reviews, contributing to three finalist placements for assistive-technology teams in innovation competitions

PROJECTS

Motion+ LLC — **Tuscaloosa, AL**
Co-Founder & Chief Technology Officer — **Jan 2026 - Present**

- Created U-Clamp to connect manual wheelchairs with consumer scooters, linking tube measurements to SolidWorks models and design tables for customized 3D-printed parts and building initial prototype using only $25 in materials, with three-person design team earning $2.5K through 2025 TOM Global Innovation Challenge Daily Living Grand Prize
- Partnered with UA Adapted Athletics, program with 23+ national titles, on U-Clamp prototype development, translating wheelchair-user feedback into fit and usability requirements and defining pilot evaluation across users, wheelchair and scooter configurations, and environments, securing confirmed pilot commitment contingent on required safety testing
- Co-founded Motion+ around four mobility upgrades and four provisional patent applications, uniting products that swept Big Ideas' first–fourth places ($11.5K), winning Aldag's first-place Alabama Power Foundation Innovation Technology Award ($5K) and Sloss Tech second place ($10K), bringing total team non-dilutive funding to approximately $40K

HiThinkr | European Innovation Academy — **Porto, Portugal**
Program Participant | Team Lead — **Jul 2025**

- Led five-person international team through three-week sprint to prototype AI mini-games for critical-thinking practice, translating 42 interviews into evidence-backed product thesis, product requirements, and three prioritized gameplay loops
- Ran promotional tests across several outreach channels, primarily word of mouth, directing website visitors toward prelaunch waitlist for HiThinkr's first games and generating 430 signups at 31% visitor-to-waitlist conversion rate
- Pitched HiThinkr's critical-thinking game concept, 42-interview customer evidence, and launch-test results to 500+ business leaders, earning team placement among Finalists of 60+ ventures and winning Nixon Peabody Trademark Award

TECHNICAL SKILLS

- **Engineering:** SolidWorks, parametric CAD, Excel design tables, custom-fit part generation, print-ready STL workflows
- **Prototyping:** 3D printing, rapid prototyping, design iteration, prototype reviews, functional prototype fabrication
- **Product:** Customer discovery, requirements definition, product prioritization, workflow mapping, process automation