

# ANTHONY RADKE

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## Education

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**University of Colorado Boulder**

**Aug 2022 – May 2026**

*Bachelor of Science in Mechanical Engineering - 3.5 GPA*

## Relevant Coursework

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- Manufacturing Processes
- Component Design
- CAD / Fabrication
- Dynamics
- Heat Transfer
- Fluid Mechanics

## Experience

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**TSR Solutions, LLC**

**May 2023 – Aug 2024**

*Engineering Technician*

*Centennial, CO*

- Programmed CNC machines to create intricate geometries and complex parts, ensuring tight tolerances and smooth surface finishes.
- Created technical drawings in SolidWorks for all mechanical components using GD&T, including top-level assembly drawings and sub-assemblies for projects with over 1,000 parts.
- Prepared comprehensive BOMs for all assemblies, detailing part specifications to support accurate budgeting and streamlined procurement. Ensured all components were available on time to meet project deadlines.
- Redesigned and assembled a pneumatic small-scale Fuzz Button machine into a larger, versatile system, minimizing material use and costs. Modified components to enhance safety and reduce expenses while retaining overall reliability.

## Digits

**May 2020 – Jan 2023**

*Head of Media Production*

*Remote*

- Produced 3D models and digital assets for blockchain-based collectibles, delivering prototypes and finalized designs that expanded the company's portfolio and market appeal.
- Designed and created app trailer amassing 17+ million impressions in 48 hours. Developed engaging social media templates that contributed to a gain of 150,000 followers across all platforms, ensuring a consistent digital presence.
- Collaborated with high-profile NBA and NFL athletes to leverage their extensive social media influence, significantly amplifying brand recognition and engagement.
- Recruited and managed a team of designers, building a high-performing creative team to execute complex projects under tight deadlines.

## Projects

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**Pneumatic Tool-Changing System for CNC Mill | CAD, Machining**

**Aug 2024**

- Engineered a pneumatic tool-changing system to modernize older CNC mill, replacing manual wrench adjustments with a dual-direction pneumatic actuator.
- Designed a custom enclosure and mounting brackets in SolidWorks, using precise measurements of the mill's top assembly to ensure seamless integration. Created detailed technical drawings to guide fabrication.
- Fabricated components from steel and aluminum, machining all parts to exact specifications for durability and long-term reliability.

**Prime Security Crate | CAD, Project Management**

**Jan - May 2023**

- Secure delivery system designed to combat package theft using solenoid lock & RFID technology for controlled access.
- Designed detailed CAD models of the security crate and its components, ensuring optimal integration of components.
- Sourced and ordered components, selecting materials that balanced quality, functionality, and cost-efficiency within project constraints.
- Led team of 5 members, delegating tasks and coordinating efforts across design, electronics, and assembly to deliver a functional proof of concept.

## Skills

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**Technical Skills:** Certified SolidWorks Associate, CNC Programming, Adobe & Microsoft Suite

**Programming Languages:** MATLAB, C++, HTML/CSS

## Extracurricular

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**Freelance Video Editing / Animation**

**2018 – Present**

*Remote*

- Operate a freelance video editing and animation business, managing tight deadlines and delivering high-quality results.
- Coordinate creative & technical efforts, strengthening my organizational and problem-solving skills for efficiency.
- Lead teams of designers, organizing projects through multiple iterations and ensuring precise execution.