

# Tyler de Perrot

US Citizen Longmont, CO English, French  
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## Academic Achievements

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**University of Colorado Boulder**  
**B.S. IN MECHANICAL ENGINEERING**  
3.2 GPA Passed EIT exam

*Boulder, CO*  
2016-2019

**Maryland Institute College of Art**  
**B.F.A IN VIDEO PRODUCTION**

*Baltimore, MD*  
2004-2008

## Skills

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<b>Software</b>	Excel, Visual Basic, $\LaTeX$ , Python, C++, Matlab, EES, Solidworks
<b>Manufacturing</b>	Solidworks CAD, Millwork, Lathe, MIG Welding, Braising, EAGLE Circuit Design, FDM Printing
<b>Engineering Design</b>	Requirement Definition, Interface Design, Hardware Development, Technical metrics
<b>Engineering Leadership</b>	Task Time Analysis, Adaptive Leadership, Performance Tracking, Stakeholder Presentation
<b>Business &amp; Budget</b>	Government Compliance, Risk Assessment, Cost/Schedule/Plan Analysis, Team Management, Agile

## Professional Experience

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**InfoTree Global for Medtronic**  
**PROJECT/PROGRAM ANALYST**

*November 2019-Present*  
*Boulder, CO*

- Oversaw government requirement compliance and internal SOP for product documentation released to international websites.
- Generated Visual Basic code to optimize standard forms and decrease the time required to execute SOP across business units.

**MagTag Satellite Interface Cover for Altius Space Machines**  
**PROJECT MANAGER**

*September 2018- May 2019*  
*Boulder, Colorado*

- Learned through research how the flux of magnetic circuits effects their holding force, which was used to define requirements of system and was verified through exhaustive testing of component parameters.
- Overhauled manufacturing plan after client increased requirements and reduced budget by over 80%, in turn producing multiple functioning prototypes within 10% of final budget.
- Inspired team to remain motivated through multiple setbacks driven by scope changes and manufacturing limitations, ensuring that milestones were met as required.

**National Airwall Systems**  
**LEAD FIELD ENGINEERING TECHNICIAN**

*2006-2016*  
*National, Pennsylvania*

- Diagnosed causes of failure and wear in mechanical systems, drafting repair orders for contract bids.
- Maintained daily progress reports, using them to track performance of technicians to help reduce labor costs.
- Identified dependencies to optimize crew hours and mitigate risks on projects with inflexible deadlines, preventing unwanted surprises.

## Project Experience

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**Turbojet Engine Thermodynamics Study**  
**FABRICATION/DESIGN ENGINEER**

*Boulder, CO*  
2016

- Modeled and fabricated a turbojet engine based on the system framework of a Holset HX35 car turbocharger.
- Designed and fabricated a combustion chamber and exhaust nozzle to fit the form factor of the turbocharger and handle temperatures exceeding 900°F.
- Created electronic combustion ignition system, iterating design of combustion chamber to guarantee reliability of ignition.

## Organizations and Awards

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- 2019 **Order of the Engineer**, Member
- 2017 **Best Design Award**, Drill-Powered Vehicle, Sport Class
- 2016 **CU Flying Club & Flight School**, Member/student