

# Craig Patton

Atlanta, GA

-Email me on Indeed: <http://www.indeed.com/r/Craig-Patton/53f2a65d34991517>

Become a professional engineer in the aerospace or mechanical engineering fields specializing in one of the following: machine design, automotive design or manufacturing, power generation, fluid dynamics, hydraulics, jet propulsion, rocket propulsion, avionics, aerodynamics, CFD, engine design and testing, drones, satellites, launch vehicles, or other similar areas.

## Work Experience

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### **Power Distribution Engineer**

ENERCON Services Inc - Kennesaw, GA

December 2019 to Present

- Engineer responsible for designing and analyzing upgrades to the power distribution grid in Florida and Georgia.
- Using structural, electrical, and distribution analyses to modernize an outdated distribution system to meet new demands of environmental regulations, sustainability, storage, and expansion.
- Collaborated among a team of engineers working concurrently in a variety of environments towards different end goals.
- Conducted pre-design field surveys in remote areas to document existing equipment and environmental factors for upcoming design requirements.
- Completed permitting for various governing entities with varying requirements and deadlines.
- Conducted meetings with customers in the pre-design, post-design, and pre-construction project phases to discuss plans, scope, and possible construction problems.

### **Quality Control / Paint Chemist**

US Specialty Coatings - Alpharetta, GA

July 2016 to December 2019

- Technical liaison between the sales team and customers.
- Communicated and explained complex ideas, supporting product requirements/ needs on both sides.
- Managed production, quality control, and testing of a paint manufacturing plant.
- Upgraded production from a paper system to a batching software with batch and inventory tracking for raw materials, packaging, and finished product.
- Responsible for saving 15% of raw material cost yearly through vendor negotiations and formulation optimization.

### **Automotive Technician**

Goodyear and Kauffman - Atlanta, GA

May 2015 to July 2016

### **Electronics Sales / Food Service**

Costco Wholesale - Alpharetta, GA

March 2010 to May 2015

## **Customer Service Cashier**

Publix Supermarkets - Alpharetta, GA

June 2008 to March 2010

- Designed a firearm attachment for law enforcement that would propel less-than-lethal projectiles.
- Helped design the barrel and chamber of the attachment using aerodynamics and pressure calculations based on bullet velocity and energy. Also helped design mechanical hardware for the device, including the FEA, CFD, thermal, and fatigue tests, and manufacturing plans.

## Education

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### **B.S. in Aerospace Engineering**

Georgia Institute of Technology - Atlanta, GA

2010 to 2015

## Skills

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- Speed Aerodynamics, Finite Element Analysis, Computational Fluid Dynamics, Thermal Loads and Stress, Fatigue and Endurance Educational Focus: Propulsion Systems Design and Analysis, Systems Analysis, Structural Design and Analysis, Engineering Materials, System Dynamics and Controls Team/ Office Skills: Teambuilding, Engineered Sales, Problem Solving/ Troubleshooting, Technical Communication Aircraft Propulsion Design Project
- AIAA Undergraduate Engine Design Competition 2018/2019.
- Redesigned the Honeywell TPE331-10 Turboprop engine for use in a hybrid-electric, median altitude, long endurance search and rescue UAV.
- Detailed engine cycle analysis of all components of the TPE331-10 and redesigning select components for new parameters and requirements.

## Certifications and Licenses

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### **CERTIFICATIONS**