

**Alex Coffey**  
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**<https://www.AlexTheEngineer.tech/>**

**Driven Engineer: Quality, Materials, Analysis, Mathematics, Metal/Polymer Processing, Process Improvement**

Dedicated materials engineer with comprehensive skills in metals, polymers, quality control, testing, data analysis, and collaborating with teams to achieve goals. Innovative thinker with strong biomechanics, material science, technology and computer programming abilities. Implements impactful tactics by analyzing details and competition to meet needs, ensure quality, and improve processes. Highly organized, creative problem-solver who excels at completing complicated projects. Expertise in finding solutions, exceeding goals, leadership, and technology.

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|-------------------------|---------------------------|-------------------------|----------------------|
| • Materials Engineering | • Quality Assurance       | • Failure Analysis      | • Gage R&R Studies   |
| • Mechanical Testing    | • Data Analysis           | • Inventory Control     | • Modelling          |
| • Thermal Analysis      | • Metals, Polymers        | • Process Management    | • ANSYS Testing      |
| • 3D Modelling          | • Computer-Aided Design   | • Global Shop ERP       | • MiniTab            |
| • Solid Works           | • Microsoft Office, Excel | • HTML, CSS Programming | • Python, JavaScript |
| • Material Selection    | • Communication           | • Time Management       | • Collaboration      |
| • Root Cause Analysis   | • VBA Programming         | • Competitive Analysis  | • DSC Testing        |

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**EDUCATION**

**BS**, Bachelor of Science, Material Science Engineering; Minor: Mathematics, University of Connecticut, 2020 3.55/4.0

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**PROFESSIONAL EXPERIENCE**

**Callaway Golf Company, Chicopee, MA**

**2020-Present**

*Designs, manufactures, markets, and sells golf equipment, with \$3B in revenue and 4,200 workers.*

**Quality Engineer, July 2020-Present**

- Oversee testing, testing machines (Archimedes, Compression, CoR), and analysis to ensure golf ball quality.
- Manage competitive testing, analysis, and gage R&R studies on differences between operators and machines.
- Create Excel templates and programs to determine if failing batches fall within standard deviations.
- Improved data collection and workflow by creating testing procedures and training.
- Program and calibrate machines to test and submit samples to the laboratory.

**Quality Engineer Intern, May 2020-July 2020**

- Performed quality test on golf ball rubber cores, mantles, and ceramic-finished golf balls.
- Oversaw size, weight, Archimedes, compression, coefficient of resilience, durability, X-ray, and concentricity tests.

**Cadence Inc., Suffield, CT**

**2016-2018**

*Provides advanced laser welding, laser cutting, machining, marking, and micro-drilling services, with \$300-M revenues and 550 workers.*

**Quality Inspector, 2018**

- While working for Arcor Laser, now Cadence, oversaw microscopic, faro-arm, and CMM inspection of parts for weld-quality and imperfections.
- Conducted visual inspections to identify cosmetic defects.

**Clerk, Shipping and Receiving, 2017**

- Oversaw inspection and recording of incoming and outgoing package, materials, and machine shipments.
- Managed inventory control and records of stock movement.

**AP/AR Assistant, 2016**

- Oversaw customer payments, invoicing, reporting, and payment processing.

**Enfield Tennis Club, Enfield, CT****2015-2016***A full-service, year-round tennis facility*

- Taught youth tennis lessons and classes.
- Managed appointment bookings, retail register sales, and facility maintenance and cleaning.

**OTHER EXPERIENCE****Eagle Scout, Boy Scouts of America****Captain, High School Tennis Team**