Daniel J. Bradley

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Education

Columbia University, New York, NY — July 2020
  Data Analytics Bootcamp
Tufts University, Medford, Massachusetts — May 2019
  Majors: M.S. Chemical Engineering
Graceland University, Lamoni, Iowa — 2010
  Major 1: B.S. Chemistry
  Major 2: B.S. Biology Pre-Professional
  Minor: Mathematics

Professional Experience

Technician II, *Medtronic* — Sep 2016 – Aug 2017
  Oversaw manufacturing of various monomers from raw materials. Utilized cracking, condensation, crystallization, distillation, and various reactions in semi-batch and batch reactors. Monitored optimization through increasing production speed and tracking yields.

Stability Technician, *Medtronic* — Jan 2016 – Aug 2016
  Studied the stability of sutures and various medical devices through physical lab testing and tracking stability in ambient and accelerated environments over time. Wrote macros to automatically compile temperature logs and summarize events outside spec ranges. The macros were designed to avoid unnecessary man hours in revising monthly data and manually filling out forms which amount to saving one-two man-hours per week.

Laboratory Technician, *Henkel* — March 2013 – Sept 2015
  Formulation and testing of anaerobic, LED Curable, and pressure sensitive adhesives for new and existing products. Designed a dual cure sealant which lead to new annual sales.

Mathematics Tutor, *New Britain Library* — Aug 2014 – June 2015
  One-on-one tutoring in K-12 math and science.

Laboratory Technician, *Duracell* — Oct 2011- Sept 2012
  Metallographic Cross Sectioning, Titration, Chemical Preparation, Open Circuit Voltage, and Instron Tensile/Compression Testing. Developed SOPs for new cross sectioning techniques and in quantifying nitrogen contaminants in lithium metal.

Skills

Laboratory: *Instron (tensile and compression), UV-VIS, GC, Titration, PCR, Bomb Calorimeter, Cracking Batch reactors, Centrifuge, Distillation, Chromatography, Peel Testing, Hot strength, Torque testing, Small Batch Mixing*

Applications:
  Microsoft Office (Virtual Basic for Applications, Word, Excel, PowerPoint, Access)
  Python 3.x (Pandas, SQAlchemy, Flask, Beautifulsoup, Matplotlib, Machine Learning)
  JavaScript (Leaflet, Plotly, D3, JSON)
  HTML & CSS
  Databases (SQL, MongoDB)
  MATLAB (Genetic Algorithm)
  RStudio
  Minitab, Maple, Visio Studio, GitHub, Tableau, Jupyter Notebook

Awards and Certifications

Data Analytics — 2020
Lean Six Sigma Black Belt — 2018
Emergency Medical Technician- Basic — 2011
Eagle Scout (Boy Scouts of America) — 2006