

# Kevin Clayton

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## Education

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**Massachusetts Institute of Technology** – Cambridge, Massachusetts June, 2014  
Degree: Chemical Engineering with Biology (10-B)  
Field of Interest: Chemistry, Biology, Biochemistry, Engineering  
Relevant Coursework: Thermodynamics, Transport Processes, Chemical-Biological Engineering Laboratory, Fluid Mechanics, Experimental Biology and Communications, General Biochemistry, Organic chemistry, and Genetics.

## Professional Experience

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**Institute of Soldier Nanotechnologies** – Cambridge, Massachusetts May 2012 - Present  
**Research and Development Technician**

- Perform laboratory tests, analyze and compile data, and determine structural improvements for a novel drug reconstitution device as well as contribute to publications in biotech journals.
- Used ELISA assays, High Performance Liquid Chromatography (HPLC), UV and Fluorescent spectroscopy, and particle sizer to characterize the activity, stability, and concentration profile of TPA and Atropine in the device.
- Project results still pending, review article to be published in Therapeutic Delivery Journal.

**Trout Research Group** – Cambridge, Massachusetts February – May 2012  
**Research Scientist (Intern)**

- Attempt to develop more stable therapeutic antibodies for storage over long periods of time.
- Performed mutagenesis, DNA & Protein purification, and analysis of protein products amongst other biological techniques.
- Results of mutated antibodies pending.

**Clarassance Inc** – Rockville, Maryland June – August, 2009-2011  
**Lab Technician (Intern)**

- Gather sufficient equine CC10 and study effects of different parameters in bacterial growth.
- Performed following tasks: reagent preparation, autoclave sterilization, plating bacteria, bacterial fermentation, protein expression, gel electrophoresis.
- Grew a few kilograms of bacterial cell paste, discovered limiting growth reagent was glucose.
- Keep track of payments and billing along with other computer tasks. Also assist in the compilation of a company grant.
- Used Quickbooks to print checks, manage money and bills. Microsoft Office and Adobe to convert and write files.
- Kept great records. Aided in the Qualifying Therapeutic Discovery Tax Grant application in 2010, for which a \$244K grant was awarded to Clarassance.

## Skills

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| • Performing detailed laboratory work  | • Scientific Writing                    |
| • Data Analysis & Visual Presentations | • Accounting and using related software |
| • Programming MATLAB (competent)       | • Organizational and Office work        |

## Extracurricular Activities

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- Vice President of Delta Tau Delta fraternity Beta Nu chapter.
  - Undergraduate Practice Opportunities Program – a yearlong leadership and network building program.
  - Active football player (starter) for the MIT Varsity program.