

# Max Garber

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<https://github.com/bubblebooy>

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## Education

2009–2013 **Bachelor of Science in Physics**, *University of California Santa Barbara*, College of Creative Studies, *GPA: 3.48*.

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## Experience

2013–2017 **Physics Engineer**, Wyatt Aerosol Systems.

Development of an instrument for aerosol particle characterization

- Mechanical, optical, and electrical design and assembly of a prototype instrument
- Wrote a program in Microsoft Visual Studio to run the instrument and collect data
- Development of theory, running experiments, and data analysis with the prototype instrument
- Development of Igor procedures to analyze data from the instrument

2012–2013 **Research Assistant**, *David Weld, Assistant Professor*, Physics, UCSB.

Design and construction of a high amperage water-cooled electromagnet for a magneto-optical trap

- Wrote a Mathematica program to plot the magnetic fields from current loops
- Designed and constructed a jig and mandrels to wind magnetic coils
- Awarded Summer Undergraduate Research Fellowship to work in the group

2010 **Research Assistant**, *Elizabeth Gwinn, Professor*, Physics, UCSB.

Measured the fluorescence of DNA bound to silver nanoclusters

- Synthesized DNA bound silver nano clusters in aqueous solution
- Measured the fluorescence of the solutions for excitation across a range of different wavelengths

2009 **Robot Design**, *Amir Abo-Shaeer*, Dos Pueblos Engineering Academy.

Built a robot for the 2009 FIRST Robotics Competition

- Designed part of the robot in Solidworks
- Machined various parts of the robot

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## Skills

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| ○ Mathematica  | ○ IGOR Pro         |
| ○ L <sup>A</sup> T <sub>E</sub> X                      | ○ Machine Shop     |
| ○ CAD: Solidworks, Autodesk Inventor                   | ○ Microsoft Office |
| ○ Programing: JavaScript, Ruby on Rails, React, C, C++ |                    |