

My name is Jason Dorweiler. I'm originally from Minneapolis, MN but just recently moved to Hershey, PA for my girl friend's new job. I got both a BS and MS in chemistry from the University of Minnesota in 2007 and 2009.

After finishing those degrees I spent a few years working as a cancer researcher for a pharmaceutical company. I mostly worked on the discovery of new cancer drugs from natural sources. Common foods such as coffee and broccoli have been linked to lower rates of some types of cancers. It was my job to find the specific molecule in the plant that was responsible and either isolate it or make it synthetically.

After I left that job I moved out to the east coast (NJ) to work for research and engineering at Exxon. My job here was to discover new carbon capture materials with the goal of creating zero emission oil refineries. Since this is a very new area of research there are no standard ways to test these materials. The other part of my job was to then design process reactors that were capable of quantifying the amount of carbon dioxide that a material can adsorb.

Both were very interesting jobs but I finally decided to pursue another degree. I've been a hobby roboticist for several years and decided to try and make that a career. I was split between getting another degree in Mechanical, Electrical, or CS. I met with several schools and finally decided on CS at OSU mostly because the time commitment was less and most of the interesting research in robotics is in software anyway.

My specific interests are in autonomous robotics. I've built with various levels of autonomy but my most recent ones are a small self-driving car which navigates by GPS, speed, and angular rate and an indoor robot which uses an IR depth scanner to map, localize, and navigate itself in a room.

For programming languages, I'm most capable with C++ which I learned from CS176 and Python which I am self-taught. In my first undergrad I took a course in FORTRAN but I've never found much use for it since then. I've used several other languages to a lesser degree, such as C, Perl, FORTRAN. I made the switch to using Linux about 2 years ago so I know my way around a terminal fairly well.