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As an undergraduate student at Westfield State University I pursued a degree in Mathematics with the intent on becoming a high school mathematics teacher. By the time I became a senior I was not sure if this was the route I ultimately wanted or what my other options were with a degree in mathematics. When I graduated (still unsure of what I wanted to do) I decided to continue my education at UMass Lowell and earned a master's degree in applied mathematics. The summer between my two years of study as a graduate student I worked at an internship in Newport, RI at the Naval Undersea Warfare Center (NUWC), Division Newport. After this internship I knew that what I wanted to do was to continue to learn and grow in an industry environment. I started working there as soon as I graduated from UMass Lowell.

At NUWC I model undersea sound to determine the environmental impact on marine life. I use computer software (such as MATLAB) to develop algorithms that simulate the propagation of sound through water. Mathematics was the perfect base to grow off of as I learned the mechanics of how sound propagates through water. I have also used signal processing in some projects I have worked on here at NUWC. Since I have begun working I have continued to take graduate classes at the University of Rhode Island on signal processing and underwater acoustics.

I want undergraduate students in mathematics to know that teaching is not the only career option and that there are many opportunities for internships out there to try out different career paths. I wish I had been

aware of them as an undergraduate student and was more willing to branch out and travel if need be to experience different aspects of what I could do with my life after college.