



Tyler is currently working at Illumina Inc. as process development engineer for the Manufacturing Technical Operations (MTO) group. His focus includes scaling state of the art DNA sequencing consumable products from R&D stages to high-volume manufacturing facilities. The team he manages is focused on consumables manufacturing using a variety of chemical deposition and polishing techniques. The goal of the group is to minimize production costs, maximize yield, and ensure a robust product is delivered to the customer.

Before joining Illumina, Tyler was a product engineer at Lam Research Corporation. His focus was on solving complex technical challenges faced by leading semiconductor fabrication companies who were using Lam's plasma etch chambers to build 3D-NAND memory chips.

Prior to working in industry, Tyler completed his M.S. and Ph.D. at UCSD in Dr. Andrew Kummel's Lab. The group was focused on optimizing the atomic layer deposition of high-K gate metal oxides on III-V semiconductor surfaces. Tyler graduated from UCSB with a B.S. in chemistry. While at UCSB he researched organic photovoltaic technologies in Dr. Thuc-Quyen Nguyen's Lab.