

Team Rocket Photography Challenge Submission

Odometry - the basis of our autonomous programming. After utilizing multiple rotation sensors, an inertial sensor at the center of our bot, and distance sensors on the edges, we needed a few compound equations to pinpoint our robot's position on the field, including trigonometry, mod-systems, and geometric analysis. Our photo encapsulates two of our team members, Arya (left) and Kaden (right), using our mentor and teacher's aid to generate an efficient method of determining our robot's position during the match. These equations, established in our code, enabled our robot to perform consistently in autonomous skills runs, and beyond.