**STANFORD PROMPTS**

The Stanford community is deeply curious and driven to learn in and out of the classroom. Reflect on an idea or experience that makes you genuinely excited about learning. (100 to 250 words)

Indian farmers’ overwhelmingly deploy primitive and inefficient agrarian techniques and are consequently vulnerable to droughts, natural disasters and usurious moneylenders; significantly, farmer suicides have increased exponentially over the years.

Seeking alleviating solutions, I interned at Agriryds Pvt. Ltd. a company entrenched in precision irrigation automated systems. Here, as part of the team developing their flagship Smart F4 automatic irrigation and fertigation software, I helped design and test Printed Circuit Boards (PCBs) using VLSI and VLASI circuits. This experience elucidated how tech impacts agricultural growth, gave me experience in designing integrated systems and Processor Chips and also an overview of potentiometers ,transistors, photoresistors, capacitors and diodes as used in complex wiring systems. Post field testing the Smart F4 equipment and receiving positive feedback from jubilant farmers, sensing the potential of automation technology to impact agriculture and agricultural communities, and having seen my efforts bear fruit, I aspire to study machine and automation systems design for real-world impact by pursuing a career in Engineering. I see myself immersed in studying the minutiae of integrated circuits and other electrical machinery at Stanford in Fuse and the IEEE (Stanford Chapter) under professors such as Dr. Robert Dutton and Dr. Thomas Lee. It is here I believe I will begin my social impact journey to impact the lives of the most marginalized groups in my country and across geographies by conceptualizing and designing machines that provide sustainable solutions to some of world’s most pressing problems.