

OFFCUT REDUCTION STUDY

CHALLENGE

- To reduce the waste during machining of products
- To reduce the cycle time and improve overall efficiency of the plant.

PARTNER



CR Plastic

This company located in Stratford; Ontario manufactures, patio furniture from recycled plastic. (HDPE)

TEAM

- Steve Tough, CNC programming head, CR Plastics.
- Radhika Dhawan, Quality Assurance, CR Plastics
- Dr. Florent Lefevre Schlick, Faculty Supervisor, McMaster University
- Jay Dave, M. Eng Manufacturing
- Jay Engineer, M. Eng Manufacturing
- Zinal Kheni M. Eng Manufacturing

MILESTONES & OUTCOME

- Decrement of cooling time of mold by using efficient cooling techniques
- Modifying design of mold to reduce quality defects and cooling time

VALUE

By implying the proposed solution the cycle time will decrease and productivity of the company will increase.

NEXT STEPS

- Real time testing to validate the mathematical model proposed by the team.

STUDENT REFLECTION

- Learnt to work efficiently remotely with less resources
- Learnt the art of visualizing and assuming to get practical results

