

CENTRIFUGAL COMPRESSOR

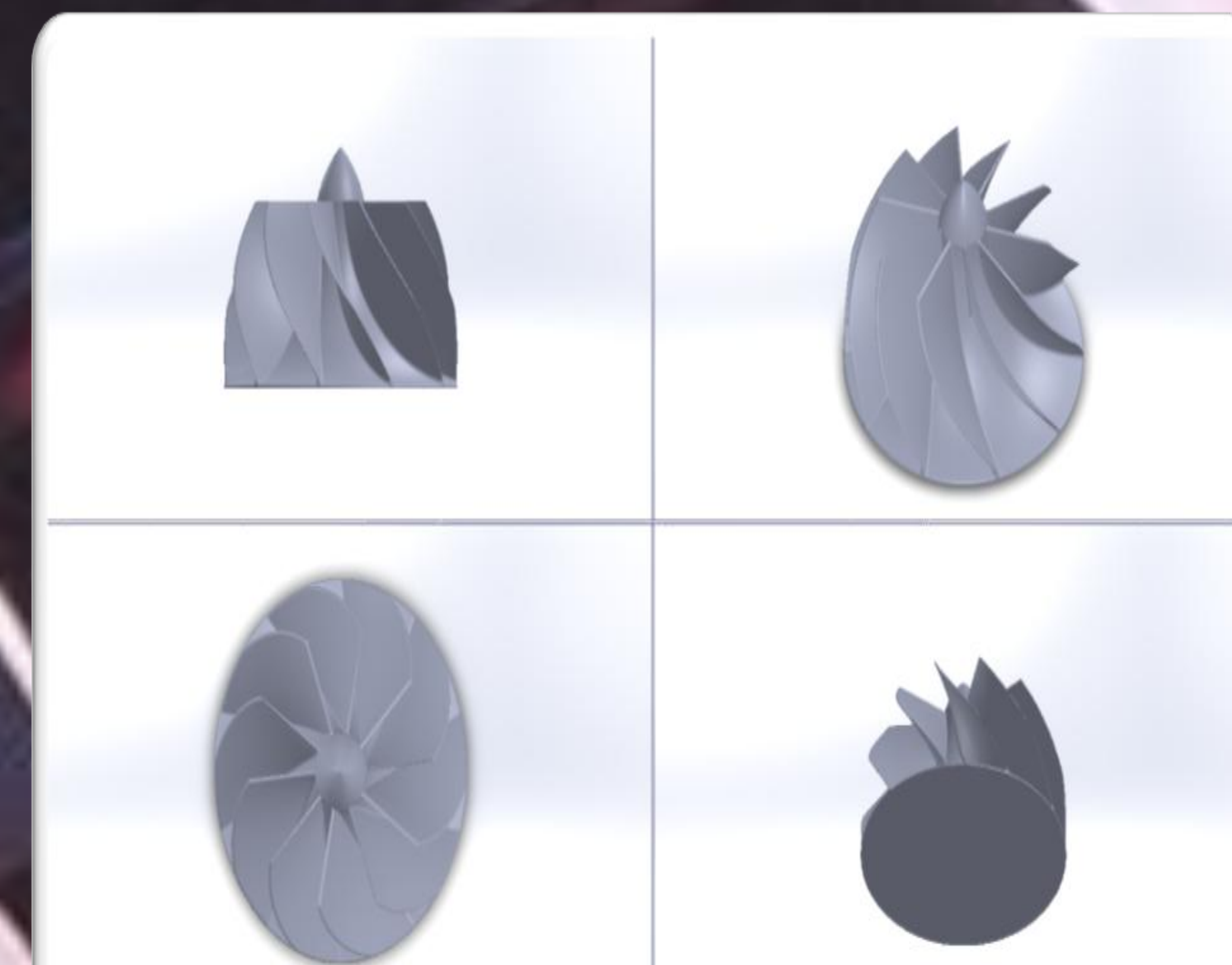
MOTIVATION

- Optimize blade design for centrifugal compressor.
- Reducing the dependence of fossil fuels by improving car's fuel economy.

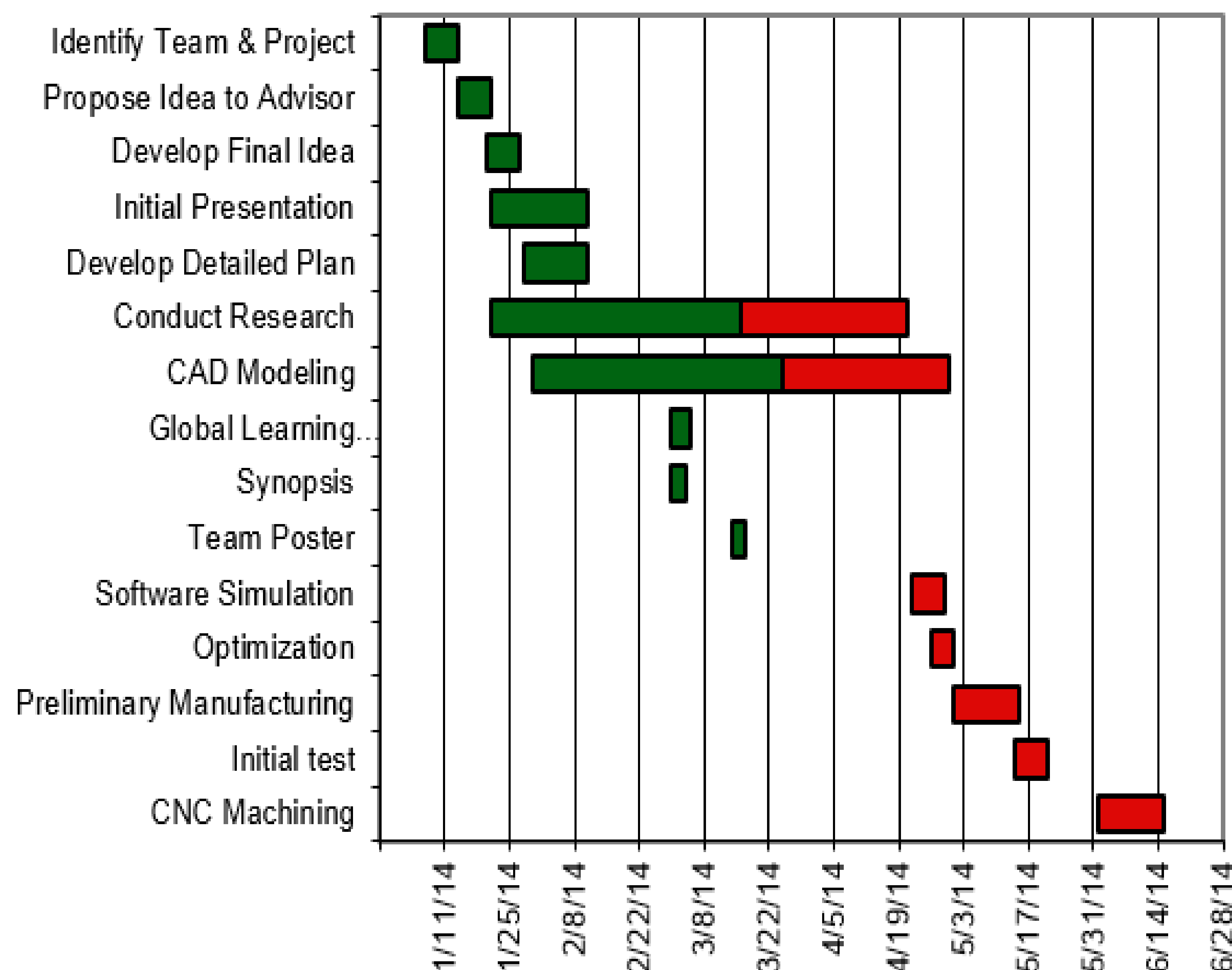
OBJECTIVES

- Create a New Design
- Design Compressor Blades and Housing
- Test on a CFD
- Improve Pressure Ratio
- Create a CNC Model

CONCEPTUAL DESIGN



TIMELINE



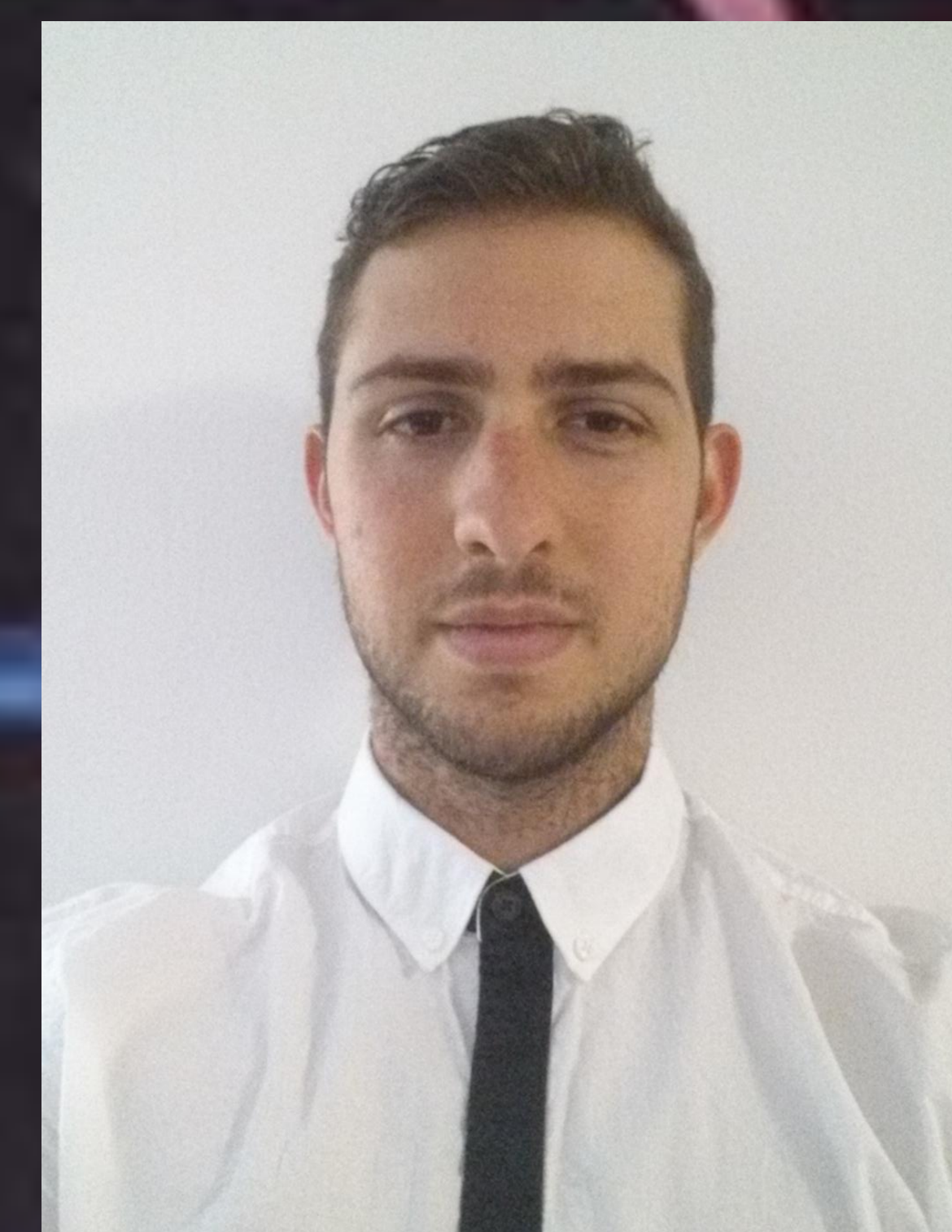
PROBLEM STATEMENT

The objective is to increase pressure ratio at the operating range and to reduce the overall production cost by optimizing the housing and compressor fins of the centrifugal compressor. Computational Methods will be used to achieve an optimal design.

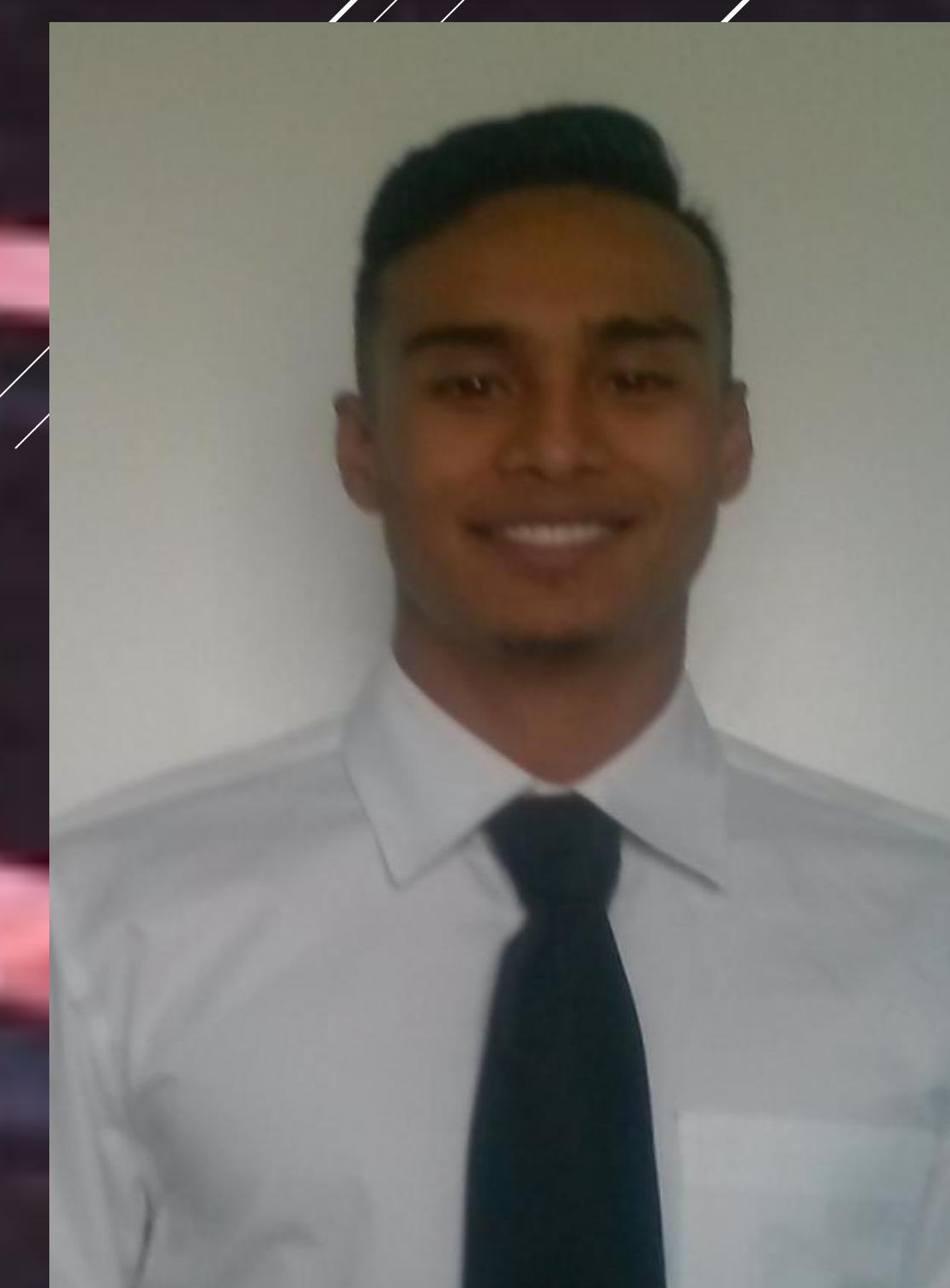
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