



Dina Caicedo Parra

**B.S. in Aerospace Engineering, Iowa State University
(2016)**

**M.S. Mechanical Engineering (2019)
Cummins, Columbus, IN**

Describe your overall duties/ responsibilities as a Powertrain & Electrification Systems and Controls Engineer:

My job at Cummins is in the research and development department. My position involves system integration of hybrid/electric powertrain vehicles. Selection of powertrain architecture, and component sizing for electric vehicles. Develop thermal management simulations and perform test cell testing.

Explain the skills/abilities that are required for being successful in your role:

This position requires technical skills in thermodynamics, programming and controls, among others. On the other hand, soft skills are also required to be able to do effective presentations and meetings, communicating among different groups and documenting your work.

What advice would you give to students who are considering majoring in Mechanical Engineering?

I would recommend students to take advantage of the student organizations as much as they can. Participating in clubs that have hands-on experiences is a great way of applying what you learn in classes and identifying what you really like. Also, apply to different internships/co-ops to explore different roles and departments.

