

# Computer Integrated Manufacturing (CIM)

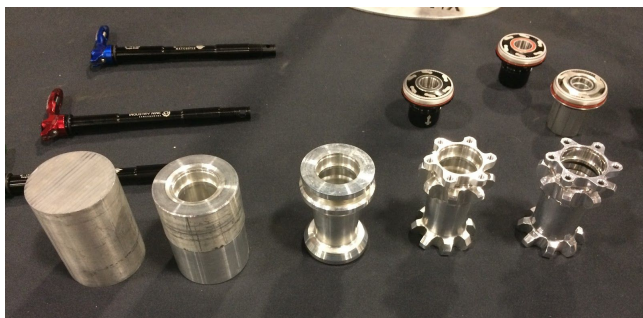
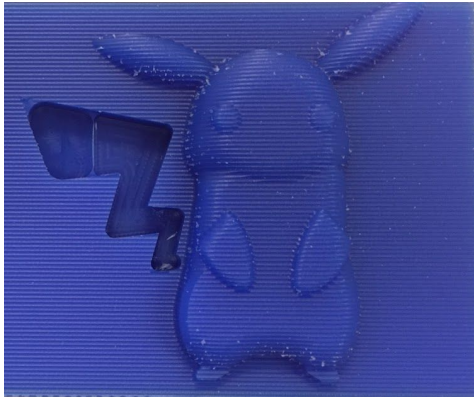
Computer Integrated Manufacturing (CIM) - Robotics and automation are found in manufacturing, and all around us! From self-driving cars to the production of your favorite pair of shoes!

The **CIM** class builds on:

- Vex building & programming skills from **POE**
- CAD (Computer Aided Drafting) and design skills developed in **IED**

Students will:

- Program the CNC mill by hand
- Use CAD/CAM software & the CNC mill to produce physical models of 3D CAD designs.
- Program industrial and educational robot arms
- Simulate automated manufacturing processes using Vex Robotics



**Grade level:** 10, 11, 12

**Location:** Northridge High School

**Course length:** 1 year

**Instructor:** Kurt Jensen  
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**Credit:** 1.0 credit of CTE

**Prerequisites:** POE, IED