

Increasing Productivity with **Plant Automation**



MacroLever Inc.

17811 Davenport Rd. Ste.27
Dallas, TX 75252

www.macroleverinc.com



Why Work With Us?

The process of creating custom machinery can be daunting without the right kind of partner.

MacroLever Inc. builds elegant, creative solutions that will increase productivity and improve quality and safety. The MacroLever team excels in creative, non-linear thinking, strong organizational skills and personalized, close collaboration with customers.

Here's a video of automation projects:

<https://www.youtube.com/watch?v=UOw2pB7F1Sw>

Partnering with MacroLever takes the risk out of custom machinery development.



Concept

Our first step is to thoroughly understand your need:

Increase speed?

Improve precision?

Augment productivity?

Adapt to specific space or configuration?

Streamline process?

Apply new materials?

Next, we talk through potential solutions. In a collaborative process, we sketch the outlines of a concept to pursue. Our concept proposals are straightforward and are technically feasible. At this point, we provide a quote to develop a validation study or to complete the project, depending on complexity.



Validation Study

The Validation Study, also called Front-End Design, has the following goals:

- **Assess and mitigate the risk factors that were identified during the concept stage**
- **Define the design criteria**
- **Select major components, materials and machine elements**
- **Fine-tune the final cost of the project**

The output of this phase is a clear, detailed scope of work and budget.

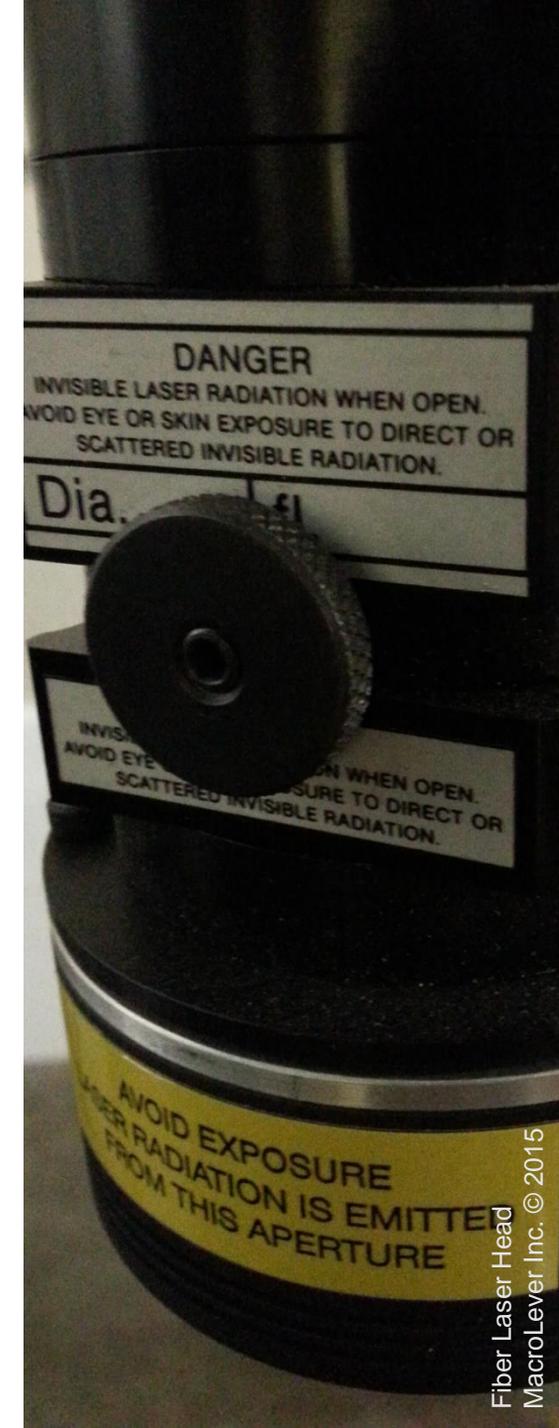


Design and Fabrication

With a validated concept, our mechanical designers employ SolidWorks to integrate the components and machine elements into a system.

Simultaneously, our automation designers produce the electrical schematics, PLC, Motion Controller programming and HMI programming to form a system.

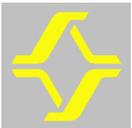
These blueprints and schematics then hit the shop floor for final fabrication, where our team of experienced machine craftsmen converts them into beautiful, efficient, elegant pieces of equipment.



Start-Up and Commissioning

Projects are not complete until the machines are installed, powered up and tested. Our expert technicians train your operators and maintenance personnel on properly running the equipment using customized manuals.

Regulatory documentation is also provided when appropriate.



```
Pause InKey(_T  
data=LastKey  
If data<>13 An  
? #2, data;Chr  
End If  
  
If data=13 The  
?#2,data;"";  
End If  
  
If data=-1 The  
Exit Loop  
End If  
'Wait 10  
End Loop
```

The Right Partner

MacroLever Inc. was founded by Carlos Hoefken in 2006 to specialize in advanced industrial automation. Carlos and his team each have more than 25 years of experience designing and building custom machinery for manufacturers in a variety of industries: medical devices, semiconductors, automotive, food and beverage, paper, military/defense, construction, telecommunications, and more.

