

# Portable Curve Tracer

## Team 10



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- Lead Prototype Director
- Lead Presentation Manager
- Lead Project Integrator
- Lead Report Manager
- Lead Manufacturing Manager
- Lead System Designer



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# Product Description

Affordable, easy NPN device test system. This curve tracer is the perfect fit for any small lab or DIY electronic project.

- On board display & interface
- Small lab bench footprint allows portability
- Simple yet effective design at competitive cost
- Marketed in USA

# Key Requirements

- \$300 list price
  - \$50 component cost
  - \$150 maximum production cost
- Environment
  - Intended for indoor use
    - Temperature range: Min-0, Max-60, Norm-25 Celsius
    - Humidity: 0-100% non-condensing.
- (Power input)
  - 120 V 60 Hz input
  - Standard wall plug
- Functionality
  - Allows user to set transistor gate current step, Collector voltage.
  - Displays device characteristic curve, all test parameters

Block A: Getu Ma

Block B: Wenyue Cai

Block C: Songyu Huang

Block D: Colin Garvey

Block E: Cheng Zeng

Block F: Steven Blahnik

# Block Diagram

