

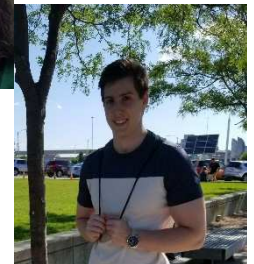
EE-595

Safety on Forklifts

Team 8



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- Luka Zekanovic
- Tim Szuba
- David Frailey
- Ryan Wurm-Tran



EE-595

Safety on Forklifts

Description

- Purpose of Product – A traffic signal intended for use in factories with fork-truck traffic
- Each forklift outfitted with module that relays information to driver when approaching intersections
- For use in 4-way, 3-way, or 2-way intersections
- Designed for food production – high heat/humidity
- Market: USA (factory, plant, warehouse)

EE-595

Key Requirements

- **Cost**
 - Sales Price: \$800, Component Cost: \$200, Assembly & Test Costs: \$80
- **Environment**
 - Indoor use, possibly hot/humid working area
 - Operating Temp Range: 4 to 105 °C
 - Operating Humidity Range: 0 to 100%
- **Power Input(s)**
 - Residential AC Power (box): 102-132 VAC @ 20 Amps Max
 - Battery Power (module on forklift): Chargeable, external to product, 12 to 48 volts @ 0.5 Amps
- **Major Functions, Quantities Measured, Displayed**
 - Four LEDs: On/off settings for each to signal to driver
 - RF signal range between box and modules: 60 feet

EE-595 Block Diagram

TEAM MEMBER	BLOCK(S) OWNED
R. Wurm-Tran	A, F
T. Szuba	B
D. Frailey	C,D
L. Diestelkamp	E,H
L. Zekanovic	G

