

SOAR High School Inventeam[™]

The SOAR High School InvenTeam[™] invented a unique blood alcohol content (BAC) detection wristband, named Éris.[™]



The breathalyzer apparatus has a miniature sensor, located on the underside of the wrist and is 1/8th the size of traditional breathalyzer technology. Upon blowing onto the miniature sensor, the presence of ethanol triggers an analog voltage charge that is converted into an LED reaction.

Three easily discernible colors indicate to the user their blood alcohol results: Yellow designates the device is warming up. Blue designates the device is ready for use and that the user is safe to drive. Red designates the user is over California's legal BAC limit.

Users of the wristband could include responsible adults, establishments that serve alcohol, of-age college students and trend-setters. The attractive and useful bracelet will cost \$20 at retail, 13% of the price of comparable breathalyzers. 🍷

"The Dinsmore team was incredibly supportive, walking us through every aspect of the project from design, to 3D printing for prototyping, and final production. We had a great time working with them."

**Rachel Thibault and
The SOAR InvenTeam**