

**FEDERAL UNIVERSITY FROM SANTA CATARINA**  
**DEPARTMENT OF MOBILITY ENGINEERING**

**CERTIFICATE**

We certify that **Marcus Vinícius Leal de Carvalho** participated from Arduino course during the days  
05/16/2019 e 05/22/2019.

Workload: 4 hours.

**COVERED TOPICS**

**Practical applications, programming and basic concepts on the Arduino platform.**

  
Carlos Mauricio Sacchelli  
Tutor PET- EMB - UFSC