

around 32km/h. The microcontroller was very fast and stable.



Fig.10 The E-Twow scooter

All software were developed in C language using System Workbench for STM32 IDE using HAL drivers.

4 Conclusions

In this paper, was presented a comprehensive guide of design of a BLDC drive system using STSPIN32F0 product. The software tools made available by ST Microelectronic together with this System-In-Package offers the conditions to create a very good controller for BLDC motors.

The results have been obtained for various load conditions. In all situations the designed system has behaved very well with great performance. In future, it is desired the development of a controller based on this system-in-package by implementing software algorithms that lead to outstanding dynamic performance with increased autonomy.

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