

## **ABSTRACT**

*In military operations, many researchers believe that remote control of a military vehicle is everyone's future. The military is intensively developing the UGV (Unmanned Ground Vehicle) or an unmanned vehicle that can be controlled without the need for human presence in the vehicle. This is an advantage in carrying out dangerous military operations but human presence is still safe because it can be controlled remotely*

*This study discusses a UGV that can be controlled remotely and designed for military and logistical purposes. The focus of the discussion will only be on remote control communication of the main functions of the UGV, namely drive, stop and maneuver. The expected configuration is that the UGV can be operated remotely over extreme terrain, as well as being able to function as a logistics vehicle*

*The design results obtained that the remote successfully communicates with the UGV and the UGV successfully performs its main purpose. Tests carried out on a soccer field with a trajectory used along 80 m obtained that the maximum speed of this UGV is 11 km/hour. Then the turning radius gets the best results, which is 9 meters and the braking distance is about 3 meters.*

**Keywords :** *Unmanned Ground Vehicle, iBus, Remote Control, militer*