Rancang Bangun Alat *Press* Kampas Rem Cakram Berbahan Dasar Komposit Berbasis Sistem Kontrol *Open Loop* Menggunakan Arduino Uno, (*Design Of Composite Based Composite Based Brake Disc Press Press Tools Based On Open Loop Control System Using Arduino Uno*)**.** Supervised (Dicky Adi Tyagita, S.T .M.T)

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ABSTRAK

Based on previous research in making press tools that still use manual reading tools,. This is what has motivated researchers to conduct this research with the aim of knowing how to make a digital press tool based on Arduino UNO and knowing the accuracy level of the press tool module compared to the pressure gauge on the hydraulic jack. The formulation of the problem in this research includes making a digital press device based on Arduino Uno and the accuracy of the value of the digital press compared to the pressure gauge on the hydraulic jack this research was conducted at the Las Jaya Workshop Jl. Slamet Riyadi Number 04 Lumajang. The research method used experimental methods. The results of this research are from 30 data taken, the data that has a difference, there are 0 = 13%; 0.1 = 37%; 0.2 = 13%; 0.3 = 10%; 0.4 = 20%; 0.5 = 7%. Based on the t-test it is known that the value of t count <t table so that Ho is accepted, which means this press tool has a good level of accuracy, so there is no difference in the value of the results displayed on the character LCD and the result values displayed by the Pressure Gauge It can be concluded that the difference in values obtained on the pressure gauge and LCD character is still within tolerance.

Keywords : Pessure Gauge, t-test, Digital Micro Control, Hydraulic