



# Ts. ZAINAL ARIFFIN SELAMAT

PROFESSIONAL TECHNOLOGIST

Registration No. PT17170037 Malaysia Board of Technologists  
Registration No. T12121 Board of Engineers Malaysia

## EDUCATION



Bach. in Technology  
(Tool & Die)  
(UTHM)



MSc. Of Science  
Manufacturing  
Engineering  
(UTeM)



Pursuing PhD. in  
Manufacturing  
Engineering  
(UMP)

## CONTACT



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## EXPERTISE

### Field

Engineering Technology

### Expertise

Manufacturing Process  
and Production tooling's

### Specialization

Precision, micro Machining and  
Advanced Machining Technology

CAD/CAM Technology and CNC  
Programmer

## RESEARCH CONTRIBUTION & ACHIEVEMENT

My research interest is focused on the area of machining that consist of the analysis in the thermal effect in adhesive wear and surface finish of Aluminum Alloy 319. The variation orifice nozzle sizes used of nozzle from 1.0 mm to 5.0 mm were used with different machining parameters (cutting speed, feed rate and depth of cut) condition and conducted according to the fundamental response surface method (RSM). The expected outcome is the smallest of nozzle size used will minimize the thermal effects and reduce temperature which will lead to the reducing built – up edge (BUE) formation. This is due to coolant pointed generator can be directed at one point which dissipated heat from the chips. The compensation between the cutting fluid of the smallest nozzle size and the technique condition in machining process can also be offered to obtain productivity, high quality products, lower cost as well as minimizing the environmental effect (waste coolant produced). The research can benefit the industries by providing the optimal cutting parameters, minimizing the costs incurred, improve productivity, lowering the machining cost, and offers precision product in manufacturing industries.



### PROFESSIONAL MEMBERSHIP

- Malaysia Board of Technologists (MBOT)
- Board of Engineers Malaysia (BEM)
- Malaysia Technology Society (Myset)



### NETWORKING & RESEARCH COLLABORATION

- University Malaysia Pahang, Malaysia
- University Sultan Zainal Abidin, Malaysia



### PUBLICATION

- Google Scholars : Ts. Zainal Ariffin Selamat

Directory  
of

# eXpert

