

# Curriculum Vitae

## Mahbod Abrisham



### Personal Info

- ❖ Nationality: Iranian
- ❖ Date of Birth: July 18<sup>th</sup>, 1993 (Age 24)
- ❖ Email Address: [mahbod.abrisham@aut.ac.ir](mailto:mahbod.abrisham@aut.ac.ir)  
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### Education

- ❖ M.Sc. Polymer Engineering - Processing Field  
(Amirkabir University of Technology - Tehran Polytechnic)  
2017 - 2019
- ❖ B.Sc. Polymer Engineering  
(Islamic Azad University, Science and Research Branch)  
2012 - 2016
- ❖ Diploma - Mathematics (A)  
Daneshmand High school

### Professional Experience

- ❖ Quality Control (June 2014 - June 2016) . 2 Years  
Chabahar Green Pipe Company
- ❖ Engineering Intern (January 2016 - March 2016) . 3 months  
Golbarg-e-Fajr Company

### Skills

#### 1. General Skills

- ❖ Leadership
- ❖ Public Speaking
- ❖ Negotiation
- ❖ Strategic Planning
- ❖ Crisis Management

#### Computer Skills

- ❖ Mathworks MATLAB (In the Learning Process)
- ❖ Microsoft Visio
- ❖ Microsoft Office
- ❖ Autodesk Moldflow Advisor
- ❖ Biovia Material Studio

#### Professional and Device Skills

- ❖ **Composite Processing Devices:** Resin Transfer Molding (RTM) & Vacuum Infusion Processing (VIP) - Hand Lay up - Pultrusion - Filament Winding

- ❖ **Plastic Processing Devices:** Injection Molding - Extrusion - Internal Mixer
- ❖ **Rubber Processing Devices:** Rubber Extrusion - Milling - Bunbury - Formulation
- ❖ **QC Analytic Devices:** Melt Flow Index (MFI) - Impact Strength (Charpy) - Tensile - Heat Recovery - Opacity - Hydrostatic - Burst

### **Projects Conducted during M.Sc. Period**

- ❖ **Drug Delivery Systems ( September 2014 - December 2014)**  
Drug delivery refers to approaches, formulations, technologies, and systems for transporting a pharmaceutical compound in the body as needed to safely achieve its desired therapeutic effect.
- ❖ **Magneto-Rheological Elastomers ( September 2016 - December 2016)**  
Magnetorheological elastomers (MREs) (also called magnetosensitive elastomers) are a class of solids that consist of polymeric matrix with embedded micro- or nano-sized ferromagnetic particles such as carbonyl iron. As a result of this composite microstructure, the mechanical properties of these materials can be controlled by the application of magnetic field.

### **B.Sc Project**

- ❖ **Antifouling in Marine Applications (June 2016 - December 2016)**  
Anti-fouling paint - a category of commercially available underwater hull paints (also known as bottom paints) - is a specialized category of coatings applied as the outer (outboard) layer to the hull of a ship or boat, to slow the growth and/or facilitate detachment of subaquatic organisms that attach to the hull and can affect a vessel's performance and durability (see also biofouling). Anti-fouling paints are often applied as one component of multilayer coating systems which may have other functions in addition to their antifouling properties, such as acting as a barrier against corrosion on metal hulls that will degrade and weaken the metal, or improving the flow of water past the hull of a fishing vessel or high-performance racing yacht.

### **Projects Conducted during B.Sc. Period**

- ❖ Effects of Accelerated Aging on Thermal, Mechanical and Shape Memory Properties of Cyanate-Based Shape Memory Polymer: I Vacuum Ultraviolet Radiation
- ❖ Factors Affecting the Localization of Nano Particles in Hybrid Systems
- ❖ Reversible Shape-Memory Effect in Cross-Linked Linear Poly( $\epsilon$ -caprolactone) under Stress and Stress-Free Conditions
- ❖ Modeling of Composite Systems under Mechanical, Thermal and Moisture Loads Using MATLAB Software
- ❖ Relationship Between Structure and Mechanical Properties of Crystalline Shape Memory Polymers
- ❖ Investigating the Effects of the Molecular Structure on the Shape Memory Properties of Thermoplastic Polyurethane Hybrid Systems containing Carbon Nanotubes and Clay Nanoparticles

## **Organizations**

- ❖ AIChE (American Institute of Chemical Engineering) 2015 - 2018

## **Language Skills**

- ❖ English - Full Professional Proficiency

## **Certifications**

- ❖ ICDL (International Computer Driving License) - Ministry of Interior (June 2010)
- ❖ Mathworks MATLAB - Arad-e-Elm Institute (July 2017)
- ❖ Thermal Analysis Workshop (License TLE7061) - Bim Gostar Taban Ltd.