

Gerald L. Knapp

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Senior undergraduate planning to pursue Materials Science PhD and obtain industry research internship for Summer 2016.

Education

Louisiana State University, Baton Rouge, LA May 2016
BS in Mechanical Engineering, Minor in Materials Science Overall GPA: 3.50

Technical Electives: Advanced Materials Analysis, Fracture Mechanics, Scientific Computer Visualization, Corrosion Engineering, Composite Materials

Research Experience

Undergraduate Research Assistant at *LSU X-Ray Tomography Laboratory*.....(5/2013–present)

Advisor: Dr. Les Butler

- *Roles:* CAD, X-ray CT, workflow development, high performance computing
- *Software:* SolidWorks, Mathematica, MATLAB, Python, VisTrails

Undergraduate Research Assistant at *LSU Microfluidics Laboratory*.....(5/2012–5/2014)

Advisor: Dr. Todd Monroe

- *Roles:* Photolithography, microfluidic device fabrication & characterization, light microscopy, computer-assisted sperm analysis (CASA)
- *Certifications:* Clean room (Class 100) safety, Radiation safety, General laboratory safety.

Undergraduate Research Assistant at *UCBL1, Lyon, France*.....(9/2013–12/2013)

Dr. Catherine Journet (unpaid experience).

- *Roles:* Electric arc nanotube synthesis, materials analysis (SEM & TEM)

Additional Experience

Entrepreneurial Lead at *National Science Foundation I-Corps Program*.....(7/2015-8/2015)

- Lean Business Development, customer discovery, product development of additive manufacturing quality management software

Mechanical Engineering Intern at *Air Liquide Large Industries US, Freeport, TX*.....(5/2014–8/2014)

- Maximo data entry, critical spare part identification, Google Apps for Business trainer

Residential Assistant at *LSU Department of Residential Life, Baton Rouge, LA*.....(8/2012–5/2013)

- Community building, policy enforcement, event programming, peer role model

Honors and Awards

Eagle Scout (2010)

Louisiana State University Alumni Association's Global Leaders Scholarship

Flagship Scholars Award

Mable and Boykin W. Pegues Scholarship

Leadership and Service

Outreach Co-chair, LSU Society of Peer Mentors

Committee Member, LSU Spring Greening Day

Senator, LSU Residents Hall Association Community Council