

Andrew O. Sutjahjo

Online Portfolio: www.andrewnotes.com/portfolio

Education

SUNY Stony Brook University	GPA: 3.25	Expected: May 2021
Bachelor of Engineering: Chemical and Molecular Engineering	Energy Specialization	Stony Brook, NY
Bachelor of Arts: Chemistry		

Work Experience

BASF Corporation	Jul '19 – Apr '20
<i>Chemical Engineering Intern</i>	East Setauket, NY

- Design and 3-D model new process set-up that saves the site over \$360,000/year
- Create and update Process Flow Diagrams (PFDs) and Process & Instrumentation Diagrams (P&IDs) for maintenance department to ensure a safe working environment
- Streamline facility emergency protocols through change of existing safety equipment

Brookhaven National Lab: Center for Functional Nanomaterials	Mar '18 – Jun '19
<i>Student User under Dr. T. Koga</i>	Upton, NY

- Trained 2 graduate students in the use of atomic force microscope
- Assimilated atomic force microscopy techniques for polymer film characterization
- Assessed the biodegradability of microbial Polyhydroxyalkanoates for surgical materials

Institute of Gas Innovation and Technology Laboratories	Mar '18 – Dec '18
<i>Student Researcher under Dr. D. Mahajan</i>	Stony Brook, NY

- Designed a multi-chambered woodstove improving combustion efficiency
- Automated the airflow system using Arduino and 3-D printed CAD drawings
- Formulated critical relationships between air supply entrance and optimal airflow

Leadership Experience

American Institute of Chemical Engineers Stony Brook University Chapter	May '19 - Present
<i>Treasurer</i>	Stony Brook, NY

- Collaborate with various organization to increase AIChE – SBU Chapter publicity
- Coordinate student national conference trip for over 15 people per semester
- Manage organization allotted funds of \$17,000 to maximize utility of spending

Related Skills

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- **Software:** AutoCAD, Igor Pro, Java, MATLAB, Microsoft Office
 - **Equipment:** Atomic Force Microscope, Ellipsometer, Monitor Polarized Microscope, Viscometer
 - **Languages:** Fluent: English, Indonesian | Conversational: Chinese – Mandarin

Extracurricular Activities

Stony Brook University Badminton Team (Division I)	Oct '17 – Sep '18
<i>Student Athlete</i>	Stony Brook, NY

- Developed concentration, strong work ethic and perseverance to meet personal and team goals
- Learned and executed the policies and procedures governed by the NCAA

Honors/Awards

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- Presidential Four-year Academic Scholarship
 - Bronze Medalist in Chemistry for Nationals ACT-SO Competition
 - 1st Place Award in Chemistry for the New York Science and Engineering Fair (NYSEF)
 - Gold Medalist in Chemistry for NYC ACT-SO Competition
 - Outstanding Achievement in Mathematics, Archon Award